PROJECT ID:

DECEMBER 2021 **FEDERAL PROJECT** STATE PROJECT STATE OF WISCONSIN PROJECT ORDER OF SHEETS 8397-00-71 WISC 2022099 **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details **Estimate of Quantities** Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Plan and Profile Section No. Section No. Standard Detail Drawings T ALDEN, WEST CHURCH ROAD Section No. Section No. Structure Plans Section No. Computer Earthwork Data **APPLE RIVER BRIDGE P-48-0063 LOCAL STR** TOTAL SHEETS = **POLK COUNTY** STATE PROJECT NUMBER 8397-00-71 R-17-W R-16-W POLK COUNTY Wanderoos ∠ PROJECT LOCATION PP Little Falls **DESIGN DESIGNATION** A.A.D.T. 2015 = 668 STRUCTURE P-48-0063 A.A.D.T. 2035 = 734 STA 9+35.22 - STA 10+65.37 D.H.V. = N/A = 50/50 D.D. = 10% MAX DESIGN SPEED = 45 MPH = N/A **BEGIN PROJECT END PROJECT** STA 8+85 STA 11+15 Y = 208,292.27**CONVENTIONAL SYMBOLS** X = 497,537.19Y = 208,236.79PROFILE X = 497,760.40CORPORATE LIMITS **GRADE LINE** ORIGINAL GROUND PROPERTY LINE POLK COUNTY Cedar MARSH OR ROCK PROFILE LOT LINE (To be noted as such) ST. CROIX COUNTY LABEL ___ LIMITED HIGHWAY FASEMENT SPECIAL DITCH **EXISTING RIGHT OF WAY** GRADE ELEVATION PROPOSED OR NEW R/W LINE Star Prairie CULVERT (Profile View) SLOPE INTERCEPT OakridgeL. UTILITIES REFERENCE LINE 220TH ELECTRIC Designer **EXISTING CULVERT** FIBER OPTIC PROPOSED CULVERT GAS SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT STORM SEWER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), POLK COUNTY. NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID MARSH AREA COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES TOTAL NET LENGTH OF CENTERLINE = 0.044 MILES ARE THE SAME AS GROUND DISTANCES, ELEVATIONS ARE REFERENCED. Ġ TO NAVD 88 (12A). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A. WOODED OR SHRUB AREA TELEPHONE POLE

ACCEPTED FOR **POLK COUNTY** ORIGINAL PLANS PREPARED BY CONS STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** COOPER ENGINEERING TYLER RONGSTAD, PE PPROVED FOR THE DEPARTMENT Digitally signed by Matthew Van Natta E

CONTRACT

LIST OF STANDARD ABBREVIATIONS

UTILITY CONTACTS

ALL UTILITIES LISTED ARE MEMBERS OF DIGGERS HOTLINE

ABUT	ABUTMENT			
AC	ACRES	LT.	LEFT	
AGG	AGGREGATE	LS	LUMP SUM	<u>ELECTRIC</u>
AH	AHEAD	MH	MANHOLE	XCEL ENERGY
ADT	AVERAGE DAILY TRAFFIC	N NC	NORTH NORMAL CROWN	ASHLEY LAR
AVG.	AVERAGE	PAVT	PAVEMENT	801 KELLER
ASPH	ASPHALTIC	PC	POINT OF CURVATURE	AMERY, WI
BK.	BACK	PE	PRIVATE ENTRANCE	PHONE: (71
BM	BENCHMARK	PI	POINT OF INTERSECTION	EMAIL: ashl
Δ	CENTRAL ANGLE OR DELTA	PL	PROPERTY LINE	
⊄ , C/L	CENTERLINE	PP	POWER POLE	
C & G	CURB AND GUTTER	PT	POINT OF TANGENCY	
CABC	CRUSHED AGGREGATE	R	RANGE , RADIUS	
	BASE COURSE	RCCP	REINFORCED CONCRETE	
CONC.	CONCRETE		CULVERT PIPE	
		RD	ROAD	
COR	CORNER	REBAR	REINFORCEMENT BAR	
CORR	CORRUGATED	REQD	REQUIRED	
CSCP	CORRUGATED STEEL	RDWY	ROADWAY	
CCDA	CULVERT PIPE	RHF	RIGHT HAND FORWARD	
CSPA	CORRUGATED STEEL PIPE ARCH	RL, R/L	REFERENCE LINE	
CTU		RR	RAILROAD	
CTH	COUNTY TRUNK HIGHWAY	RT.	RIGHT	
CP.	CULVERT PIPE	R/W	RIGHT-OF-WAY	
CY CWT.	CUBIC YARD HUNDREDWEIGHT	S	SOUTH	
DIA	DIAMETER	SAN S SDD	SANITARY SEWER STANDARD DETAIL DRAWING	
D	DEGREE OF CURVE	SE	SUPER ELEVATION	
DHV	DESIGN HOURLY VOLUME	SF.	SQUARE FEET	
DWY	DRIVEWAY	SHLDR	SHOULDER	
EBS	EXC. BELOW SUB GRADE	SPECS	SPECIFICATIONS	
ELEV., EL	ELEVATION	SQ.	SQUARE	
ELEC.	ELECTRIC	SS.	STORM SEWER	
EXC	EXCAVATION	SY.	SQUARE YARD	
EXIST	EXISTING	STH	STATE TRUNK HIGHWAY	
E FF	EAST	ST.	STREET	
	FIELD ENTRANCE	STA. SW	STATION SIDEWALK	
FF. FL, F/L	FACE TO FACE FLOW LINE	T	TANGENT	
FS, F/L	FULL SUPERELEVATION	TC	TOP OF CURB	
G	GARAGE	TL, T/L	TRANSIT LINE	
GN	GRID NORTH	TEL	TELEPHONE	
Н	HOUSE	TEMP	TEMPORARY	
		TLE	TEMPORARY LIMITED EASEMENT	
		TYP	TYPICAL	
HYD	HYDRANT	USH	UNITED STATES HIGHWAY	
I	INTERSECTION ANGLE	UG	UNDERGROUND	
INTERS	INTERSECTION	V	DESIGN SPEED	
INV.	INVERT	VAR.	VARIABLE	
IP LC	IRON PIN OR PIPE	VERT	VERTICAL	
LC	LONG CHORD OF CURVE	YD	YARD	
LF	LINEAR FOOT			

LHF

LEFT HAND FORWARD LENGTH OF CURVE

ELECTRIC

ASHLEY LARKIN

AMERY, WI 54001

801 KELLER AVENUE SOUTH

PHONE: (715) 268-3218

POLK-BURNETT ELECTRIC COOP NATE VOLGREN 1001 STATE ROAD 35 CENTURIA, WI 54824 PHONE: (800) 421-0283 x336 EMAIL: ashley.d.chapman@xcelenergy.com EMAIL: nvolgren@polkburnett.com

COMMUNICATIONS FRONTIER COMMUNICATIONS

GLENN LEFEBVRE 154 EAST 2ND STREET NEW RICHMOND, WI 54017 PHONE: (715) 493-0017 EMAIL: glen.lefebvre@ftr.com

GENERAL NOTES:

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

ACCESS TO ALL RESIDENCES & SIDE ROADS SHALL BE MAINTAINED DURING CONSTRUCTION.

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

WEST CHURCH ROAD WILL BE CLOSED DURING CONSTRUCTION. A DETOUR ROUTE WILL BE POSTED.

OTHER CONTACTS

www.DiggersHotline.com

DESIGN CONSULTANT

COOPER ENGINEERING JACOB FRIBERG 2600 COLLEGE DRIVE RICE LAKE, WI 54868 PHONE: (715) 234-7008 EMAIL: jfriberg@cooperengineering.net

POLK COUNTY

HIGHWAY COMMISSIONER EMIL "MOE" NORBY 900 PHEASANT LANE, PO BOX 248 BALSAM LAKE, WI 54810 PHONE: (715) 485-8723 EMAIL: emil.norby@co.polk.wi.us

WDNR REGIONAL CONTACT

WDNR/WISDOT LIAISON AMY CRONK 810 W. MAPLE STREET SPOONER, WI 54801 PHONE: (715) 635-4229 EMAIL: amy.cronk@wisconsin.gov

RUNOFF COEFFICIENT TABLE

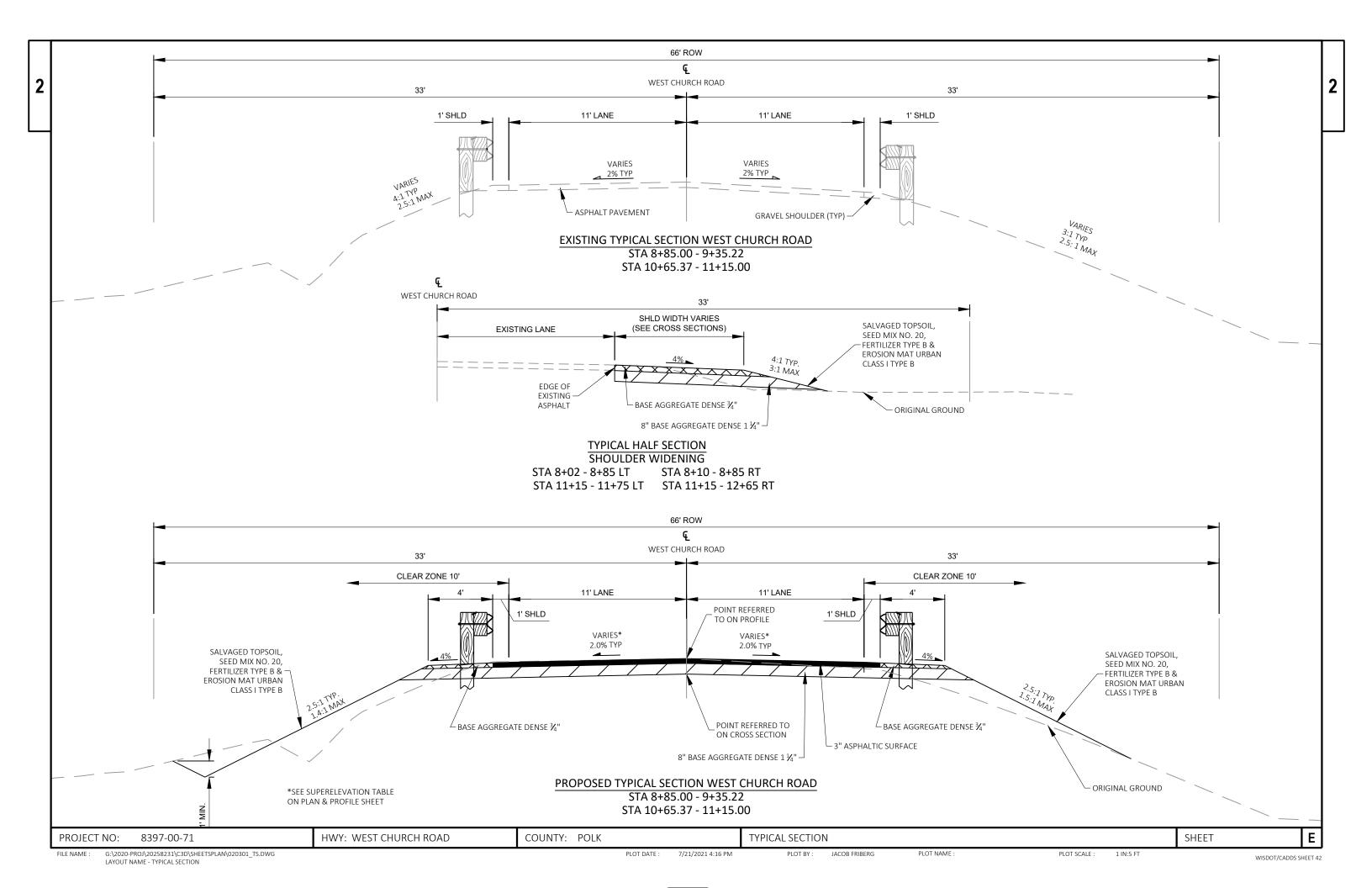
		H	DROLOGIC SO	OIL GRO	UP					
		A			В			С		
	SI	SLOPE RANGE (%)			SLOPE RANGE (%)			SLOPE RANGE (%)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36	
PAVEMENT:										
ASPHALT			.7095							
CONCRETE			.8095							
BRICK			.7080							
DRIVES, WALKS			.7585							
ROOFS			.7595							
GRAVEL ROADS, SI	HOULDER	RS	.4060							

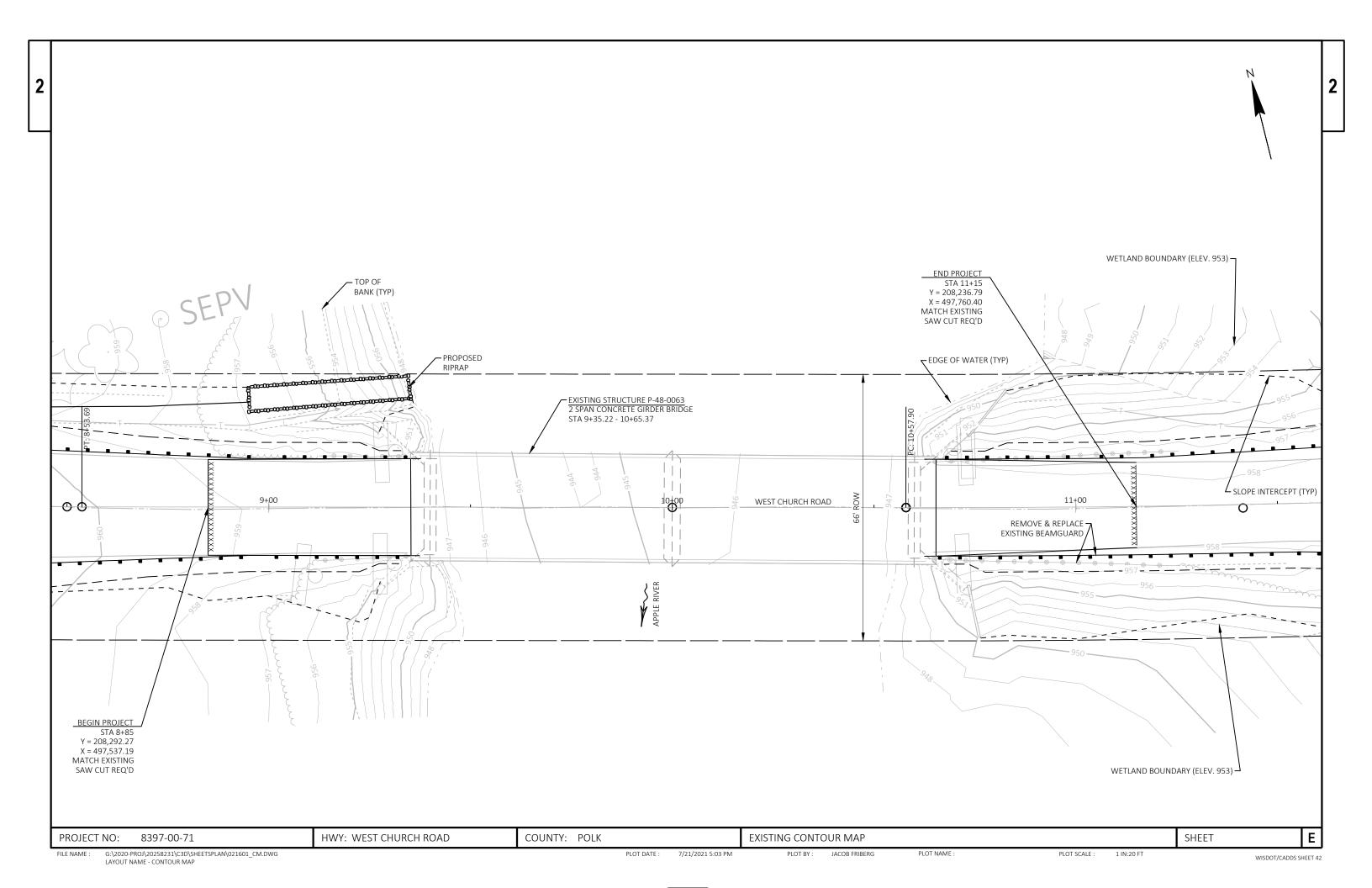
TOTAL PROJECT AREA = 0.68 ACRES

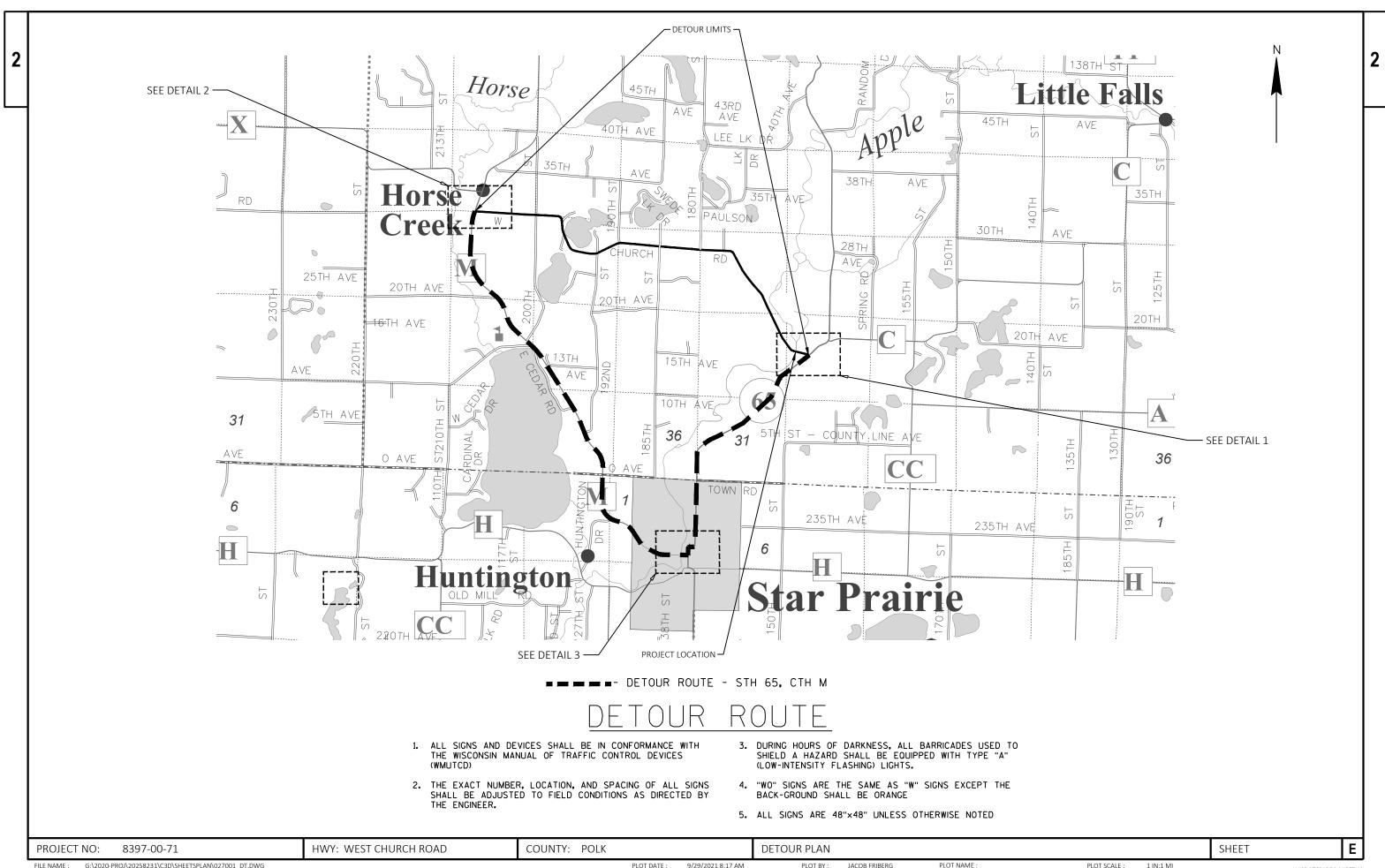
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.32 ACRES

Ε PROJECT NO: 8397-00-71 HWY: WEST CHURCH ROAD COUNTY: POLK **GENERAL NOTES** SHEET FILE NAME :

G:\2020-PROJ\20258231\C3D\SHEETSPLAN\020101 GN.DWG PLOT DATE : PLOT BY: JACOB FRIBERG PLOT NAME PLOT SCALE : 1 IN:100 FT 7/7/2021 8:35 AM WISDOT/CADDS SHEET 42 LAYOUT NAME - GENERAL NOTES







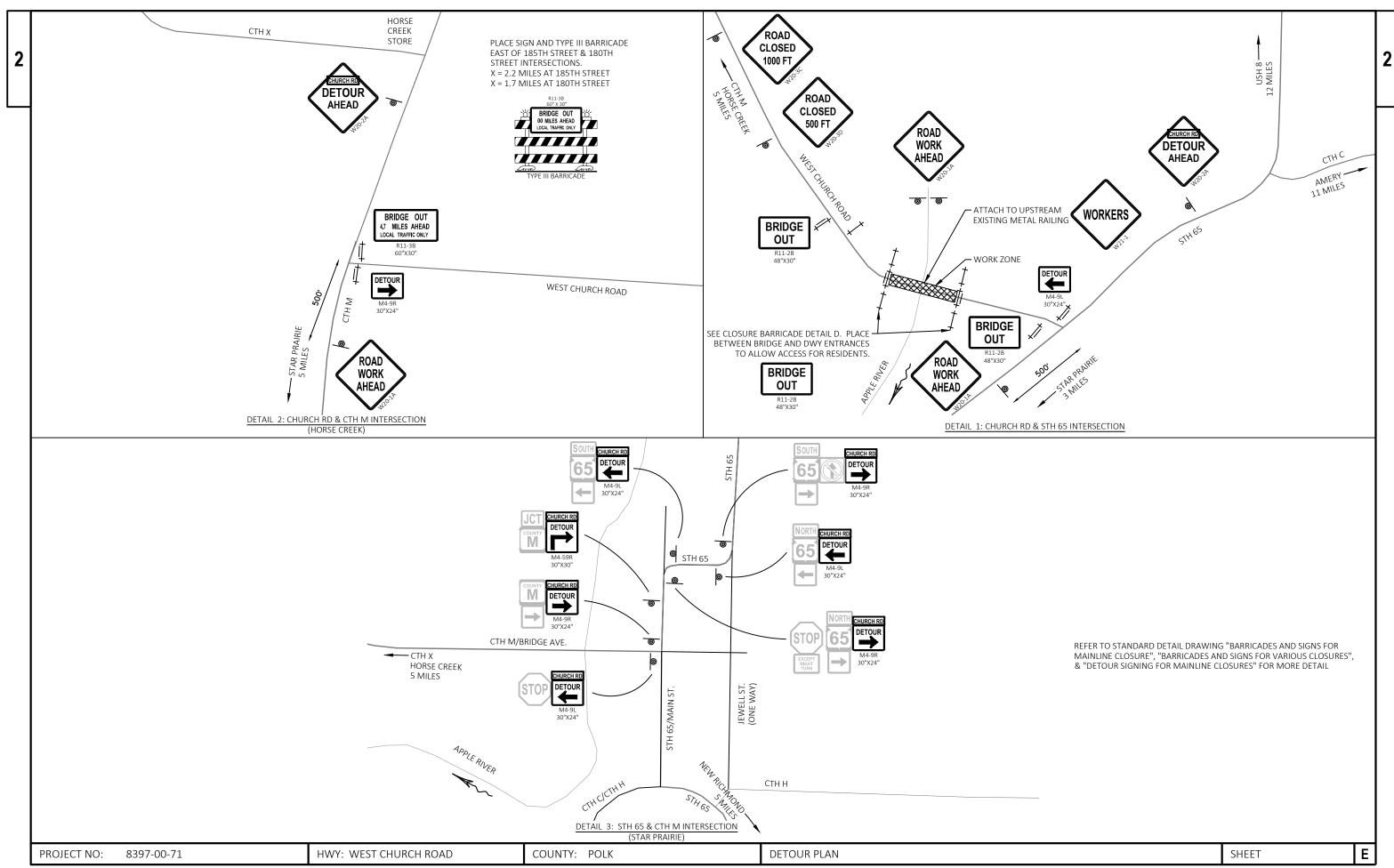
G:\2020-PROJ\20258231\C3D\SHEETSPLAN\027001_DT.DWG FILE NAME : LAYOUT NAME - Detour Overview

PLOT DATE : 9/29/2021 8:17 AM JACOB FRIBERG

PLOT NAME

PLOT SCALE : 1 IN:1 MI

WISDOT/CADDS SHEET 42



FILE NAME: G\2020-PRO\\20258231\C3D\\SHEETSPLAN\027001_DT.DWG PLOT DATE: 5\18\2021 1:30 PM PLOT SCALE: PLO####### JACOB FRIBERG PLOT NAME:

LAYOUT NAME - Detour Details

WISDOT/CADDS SHEET 42

					8397-00-71
Line	Item	Item Description	Unit	Total	Qty
0002	204.0165	Removing Guardrail	LF	180.000	180.000
0004	205.0100	Excavation Common	CY	160.000	160.000
0006	213.0100	Finishing Roadway (project) 01. 8397-00-71	EACH	1.000	1.000
8000	305.0110	Base Aggregate Dense 3/4-Inch	TON	75.000	75.000
0010	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	350.000	350.000
0012	455.0605	Tack Coat	GAL	20.000	20.000
0014	465.0105	Asphaltic Surface	TON	50.000	50.000
0016	502.3200	Protective Surface Treatment	SY	335.000	335.000
0018	509.0301	Preparation Decks Type 1	SY	235.000	235.000
0020	509.0302	Preparation Decks Type 2	SY	100.000	100.000
0022	509.0500	Cleaning Decks	SY	335.000	335.000
0024	509.1500	Concrete Surface Repair	SF	1.000	1.000
0026	509.2000	Full-Depth Deck Repair	SY	1.000	1.000
0028	509.2500	Concrete Masonry Overlay Decks	CY	40.000	40.000
0030	509.9025.S	Epoxy Injection Crack Repair	LF	10.000	10.000
0032	606.0200	Riprap Medium	CY	20.000	20.000
0034	614.2300	MGS Guardrail 3	LF	62.500	62.500
0036	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0038	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0040	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8397-00-71	EACH	1.000	1.000
0042	619.1000	Mobilization	EACH	1.000	1.000
0044	624.0100	Water	MGAL	5.000	5.000
0046	625.0500	Salvaged Topsoil	SY	800.000	800.000
0048	628.1504	Silt Fence	LF	690.000	690.000
0050	628.1520	Silt Fence Maintenance	LF	690.000	690.000
0052	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0054	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0056	628.2008	Erosion Mat Urban Class I Type B	SY	800.000	800.000
0058	628.7504	Temporary Ditch Checks	LF	20.000	20.000
0060	629.0210	Fertilizer Type B	CWT	0.500	0.500
0062	630.0120	Seeding Mixture No. 20	LB	25.000	25.000
0064	630.0500	Seed Water	MGAL	25.000	25.000
0066	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0068	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0070	638.2602	Removing Signs Type II	EACH	4.000	4.000
0072	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0074	642.5001	Field Office Type B	EACH	1.000	1.000
0076	643.0300	Traffic Control Drums	DAY	325.000	325.000
0078	643.0420	Traffic Control Barricades Type III	DAY	975.000	975.000
0800	643.0705	Traffic Control Warning Lights Type A	DAY	2,015.000	2,015.000
0082	643.0900	Traffic Control Signs	DAY	2,210.000	2,210.000
0084	643.5000	Traffic Control	EACH	1.000	1.000
0086	645.0120	Geotextile Type HR	SY	60.000	60.000
8800	650.4500	Construction Staking Subgrade	LF	283.000	283.000
0090	650.5000	Construction Staking Base	LF	283.000	283.000
0092	650.9910	Construction Staking Supplemental Control (project) 01. 8397-00-71	LS	1.000	1.000
0094	650.9920	Construction Staking Slope Stakes	LF	283.000	283.000
0096	690.0150	Sawing Asphalt	LF	46.000	46.000
0098	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000

10/05/2021 16:20:27

Estimate Of Quantities

Page 2

8397-00-71



3

				MGS	MGS	MGS
			REMOVING	GUARDRAIL	THRIE BEAM	GUARDRAIL
			GUARDRAIL	3	TRANSITION	TERMINAL EAT
			204.0165	614.2300	614.2500	614.2610
CATEGORY	POST #1 STA	LOCATION	LF	LF	LF	EA
0010	8+45	RT	25	-	39.4	1
0010	8+45	LT	25	-	39.4	1
0010	15+06	RT	65	12.5	39.4	1
0010	15+21	LT	65	50	39.4	1
		TOTAL 0010	180	62.5	157.6	4

						SALVAGED/			EXPANDED	
						UNUSEABLE			FILL	MASS
					EXCAVATION	PAVEMENT	AVAILABLE	UNEXPANDED	(FACTOR =	ORDINATE
					COMMON	MATERIAL	MATERIAL	FILL	1.25)	+/-
					205.0100					
CATEGORY	STATION	ТО	STATION	SIDE	CY	CY	CY	CY	CY	CY
0010	8+00	-	9+35	LT/RT	90	15	75	20	25	50
0010	10+65	-	12+75	LT/RT	70	15	55	60	75	-20
				TOTAL 0010	160	30	130	80	100	30

						BASE	BASE					
						AGGREGATE	AGGREGATE					
						DENSE	DENSE		ASPHALTIC		SAWING	
					ASPHALT	3/4-INCH	1 1/4-INCH	TACK COAT	SURFACE	WATER	ASPHALT	
					THICKNESS	305.0110	305.0120	455.0605	465.0105	624.0100	690.0150	
CATEGORY	STATION	ТО	STATION	SIDE	INCHES	TON	TON	GAL	TON	MGAL	LF	
0010	8+02	-	8+85	LT		10	35	-	-	0.5	-	
0010	8+10	-	8+85	RT		10	35	-	-	0.5	-	
0010	8+85	-	9+35	LT/RT	3.0	10	85	10	25	1.2	24	
0010	10+65	-	11+15	LT/RT	3.0	10	85	10	25	1.2	22	
0010	11+15	-	11+75	LT		10	35	-	-	0.5	-	
0010	11+15	-	12+65	RT		25	75	-	-	1.1	-	
					TOTAL 0010		350	20	50	5	46	

				EROSION MAT	TEMPORARY				
		RIPRAP	SALVAGED	URBAN CLASS I	DITCH	FERTILIZER	SEEDING		GEOTEXTILE
		MEDIUM	TOPSOIL	TYPE B	CHECKS	TYPE B	MIX NO. 20	SEED WATER	TYPEHR
		606.0200	625.0500	628.2008	628.7504	629.0210	630.0120	630.0500	645.0120
CATEGORY	LOCATION	CY	SY	SY	LF	CWT	LB	MGAL	SY
0010	P-48-63 NW	15	170	170	16	0.11	5	5	45
0010	P-48-63 SW	-	70	70	-	0.04	3	3	-
0010	P-48-63 NE	-	150	150	-	0.09	5	5	-
0010	P-48-63 SE	-	245	245	-	0.16	7	7	-
0010	UNDISTRIBUTED	5	165	165	4	0.10	5	5	15
	TOTAL 0010	20	800	800	20	0.5	25	25	60

PROJECT NO: 8397-00-71 HWY: WEST CHURCH ROAD COUNTY: POLK MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME : G:\2020-PROJ\20258231\C3D\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 01

PLOT DATE : 6/9/2021 1:49 PM

PLOT BY: JACOB FRIBERG

PLOT NAME :

PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

POSTS SIGNS WOOD TYPE II REMOVING REMOVING SILT FENCE **MOBILIZATIONS** 4x6-INCH REFLECTIVE SIGNS SMALL SIGN SILT FENCE MAINTENANCE MOBILIZATIONS **EMERGENCY** x 12 FT TYPE II SUPPORTS 628.1504 628.1520 EROSION CONTROL EROSION CONTROL 634.0612 637.2230 638.2602 638.3000 CATEGORY LOCATION LF 628.1905 628.1910 CATEGORY STATION SIDE EΑ SF EΑ REMARKS EΑ 130 CATEGORY LOCATION EΑ 0010 P-48-63 NW 130 0010 P-48-63 SW 135 135 0010 9+32 RT W5-52R 1 0010 P-48-63 NE 95 95 0010 PROJECT 3 2 0010 9+32 LT W5-52L 0010 P-48-63 SE 190 190 10+68 0010 W5-52L 0010 UNDISTRIBUTED 140 140 0010 10+68 LT W5-52R TOTAL 0010 2 3 TOTAL 0010 690 690 TOTAL 0010 4 12

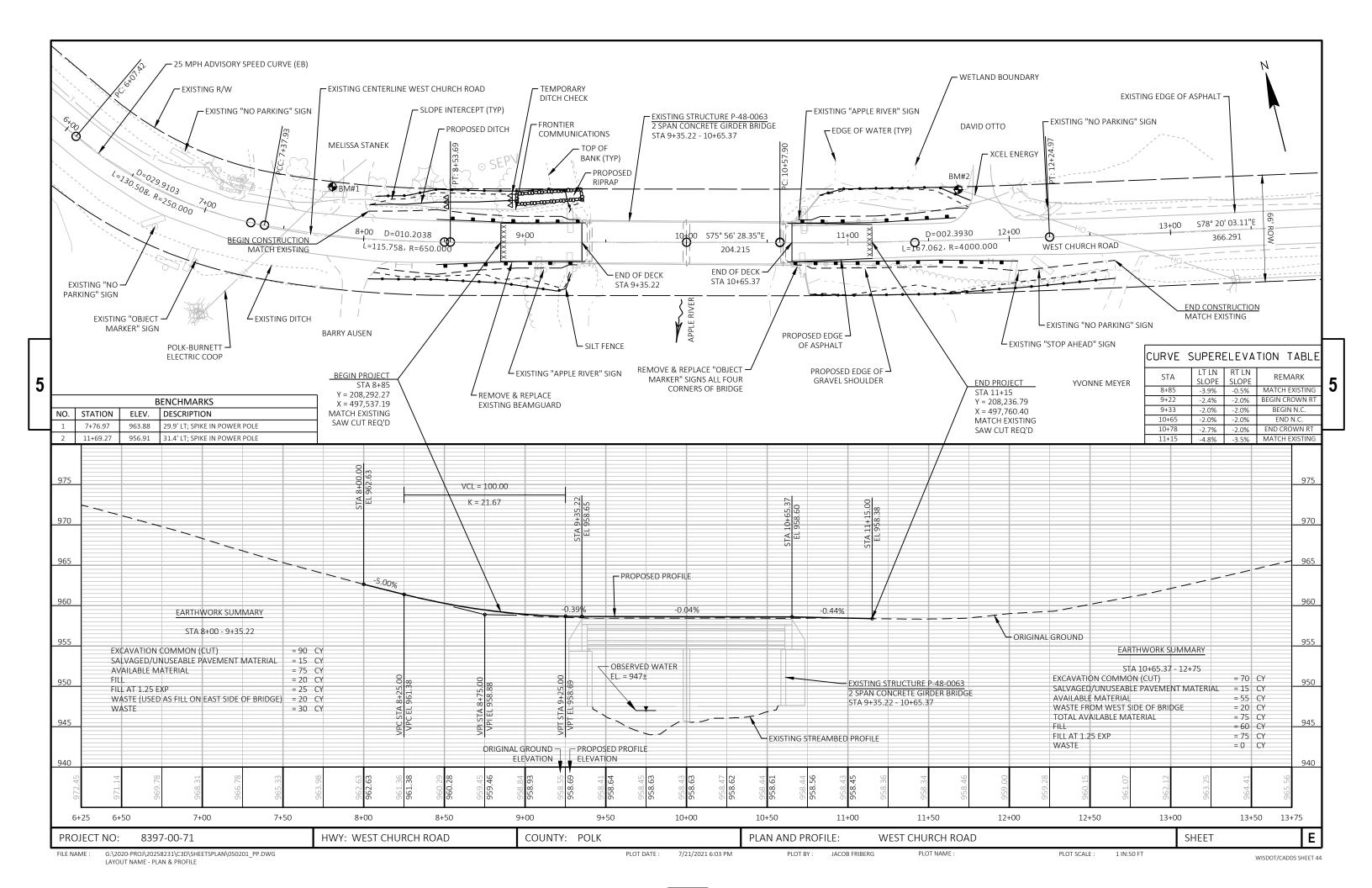
			٦	TRAFFIC	CONTROL	TRAFFIC	CONTROL	TI	RAFFIC	
		TRAFFIC	CONTROL	BARR	ICADES	WARNIN	NG LIGHTS	CC	NTROL	
		DR	UMS	TYI	PEIII	TY	PEA	5	SIGNS	_
		643	.0300	643	.0420	643	.0705	64	3.0900	
CATEGORY	DAYS	#	DAYS	#	DAYS	#	DAYS	#	DAYS	REMARKS
0010	65			3	195	4	260	1	65	ROAD CLOSED DETAIL D WEST SIDE
0010	65			3	195	4	260	1	65	ROAD CLOSED DETAIL D EAST SIDE
0010	65			6	390	12	780	10	650	ADVANCED ROAD CLOSED DETAIL A WEST SIDE
0010	65			2	130	4	260	5	325	ADVANCED ROAD CLOSED DETAIL B EAST SIDE
0010	65							14	910	DETOUR ROUTE THROUGH STAR PRAIRIE
0010	65							3	195	APPLE RIVER WARNING SIGNS
0010	65	5	325	1	65	7	455			UNDISTRIBUTED
	TOTAL 0010		325		975		2,015		2,210	=

				CONSTRUCTION	CONSTRUCTION	CONSTRUCTION
				STAKING	STAKING	STAKING
				SUBGRADE	BASE	SLOPE STAKES
				650.4500	650.5000	650.9920
CATEGORY	STATION	TO	STATION	LF	LF	LF
0010	8+16	-	9+27	111	111	111
0010	10+73	-	12+45	172	172	172
			TOTAL 0010	283	283	283

PROJECT NO: 8397-00-71 HWY: WEST CHURCH ROAD COUNTY: POLK MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME : G:\2020-PROI\\20258231\C3D\SHEETSPLAN\\030201_MQ.DWG PLOT DATE : 7/20/2021 3:23 PM PLOT BY : JACOB FRIBERG PLOT NAME : PLOT SCALE : 1" = 1' WISDOT/CADDS SHEET 42

LAYOUT NAME - 02



Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6

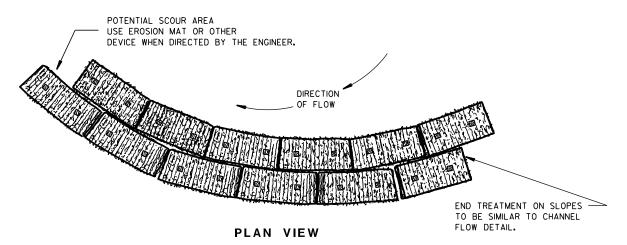
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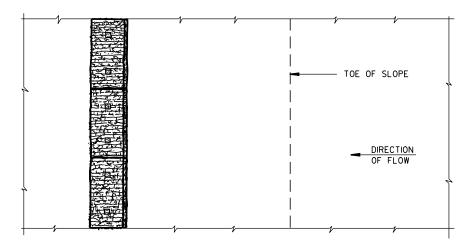
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

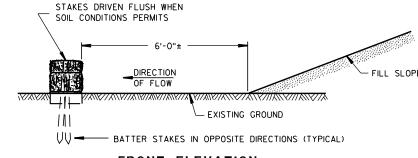
1 TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

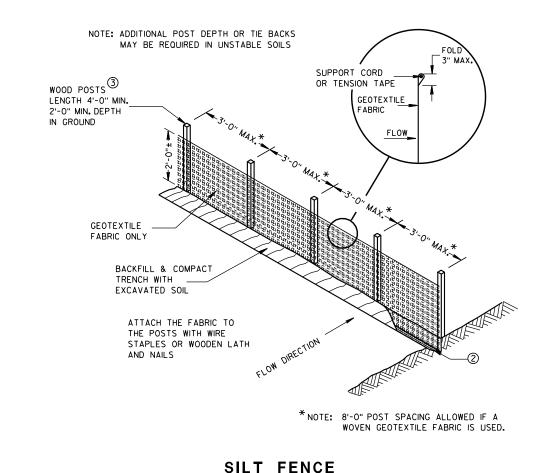
APPROVED

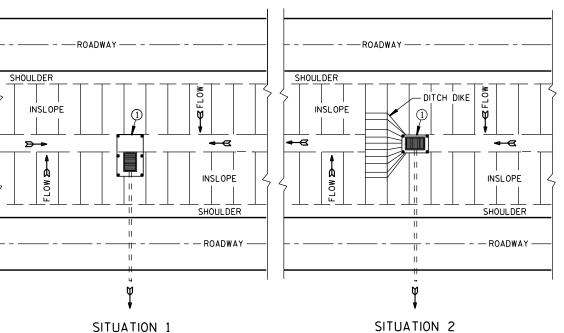
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

6

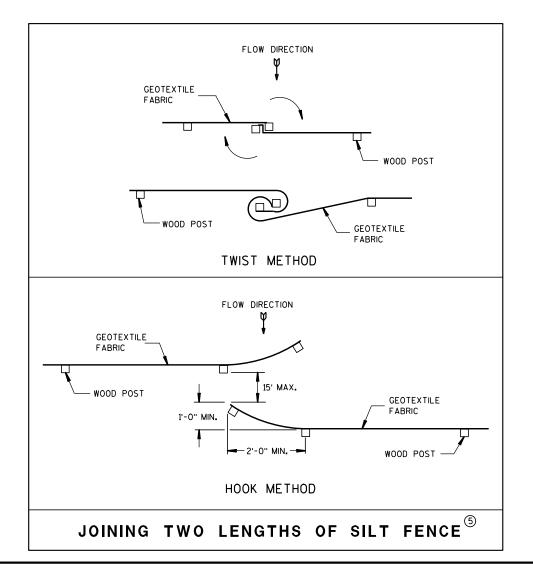
D.D. 8 E 8-3

TYPICAL APPLICATION OF SILT FENCE





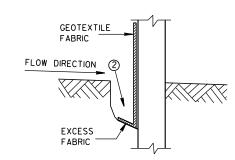
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



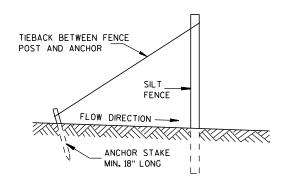
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



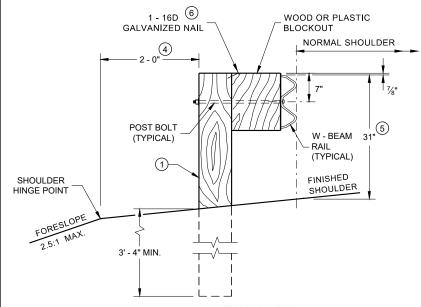
SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

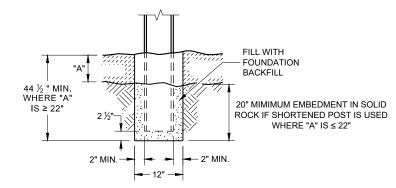
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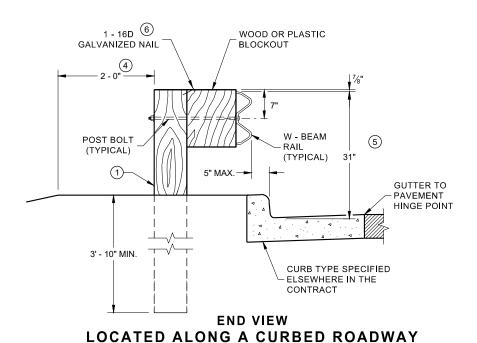
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \ensuremath{5}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS $\pm 1"$. FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- \bigcirc TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

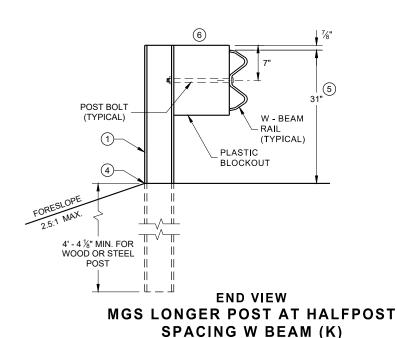


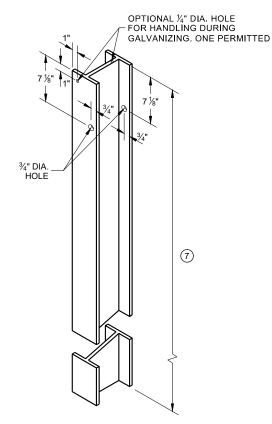
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



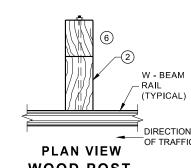
SETTING STEEL OR WOOD POST IN ROCK



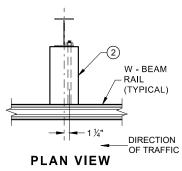




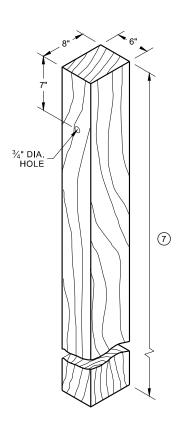
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



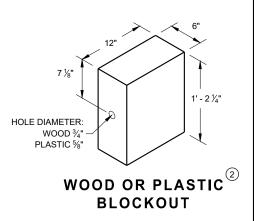
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 0

FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

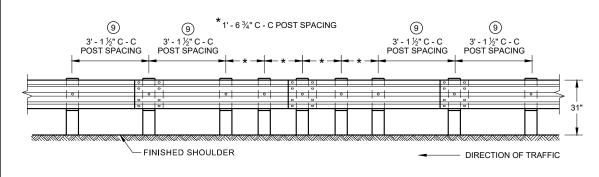
POST SPACING

DIRECTION OF TRAFFIC

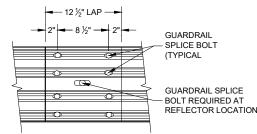
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW **QUARTER POST SPACING (QS)**



FRONT VIEW MID-SPAN BEAM SPLICE

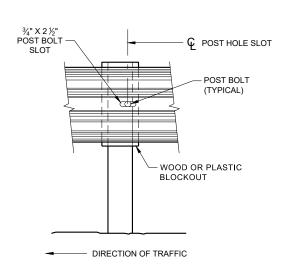
REFLECTOR LOCATIONS

GENERAL NOTES

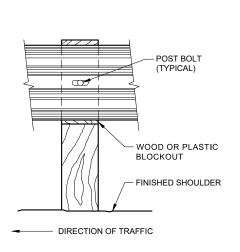
- DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

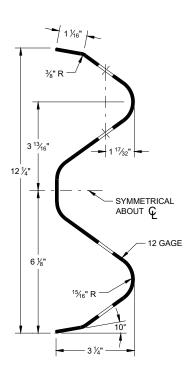
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



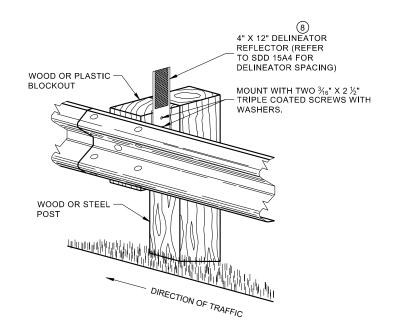
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



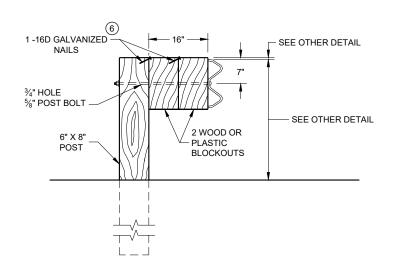
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07b

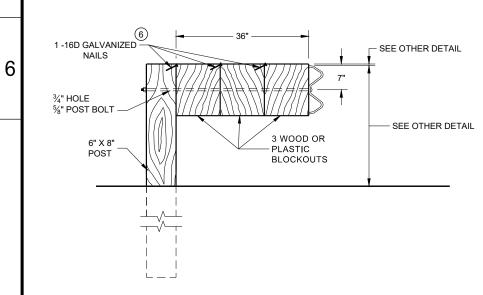
SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



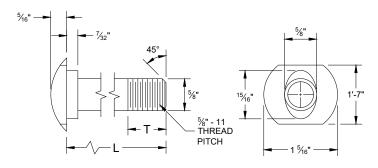
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

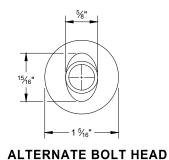
NOTE:

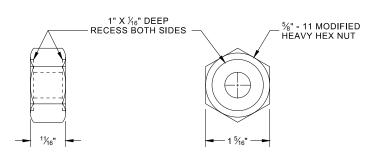
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

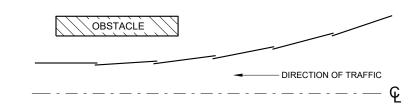
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



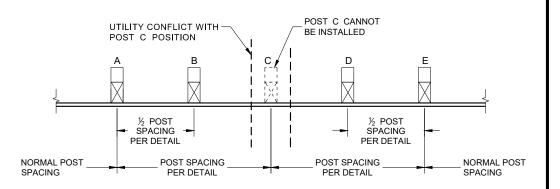


POST BOLT, SPLICE BOLT **AND RECESS NUT**

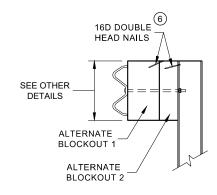
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

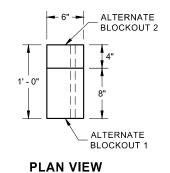


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

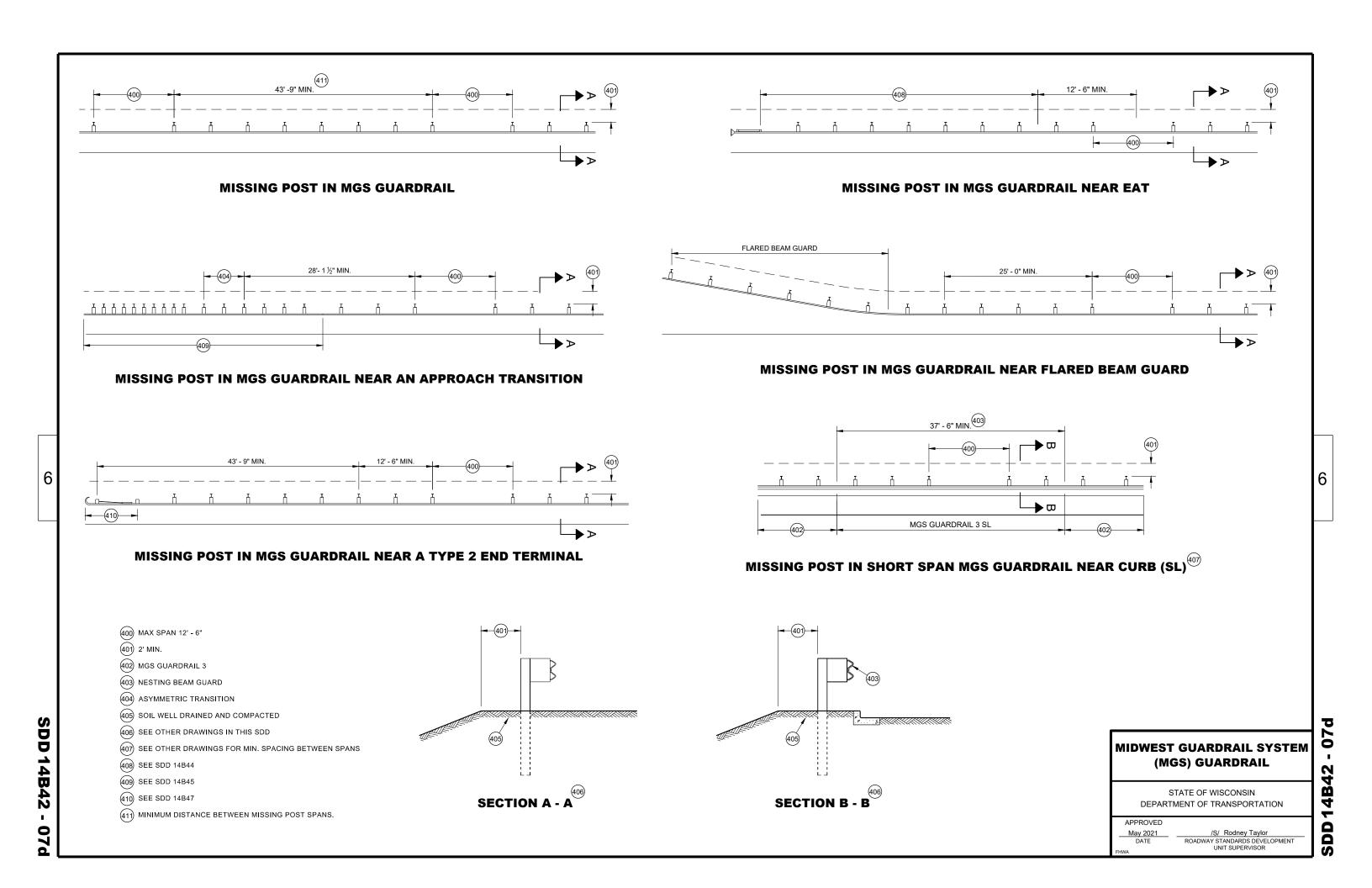
ALTERNATE WOOD BLOCKOUT DETAIL

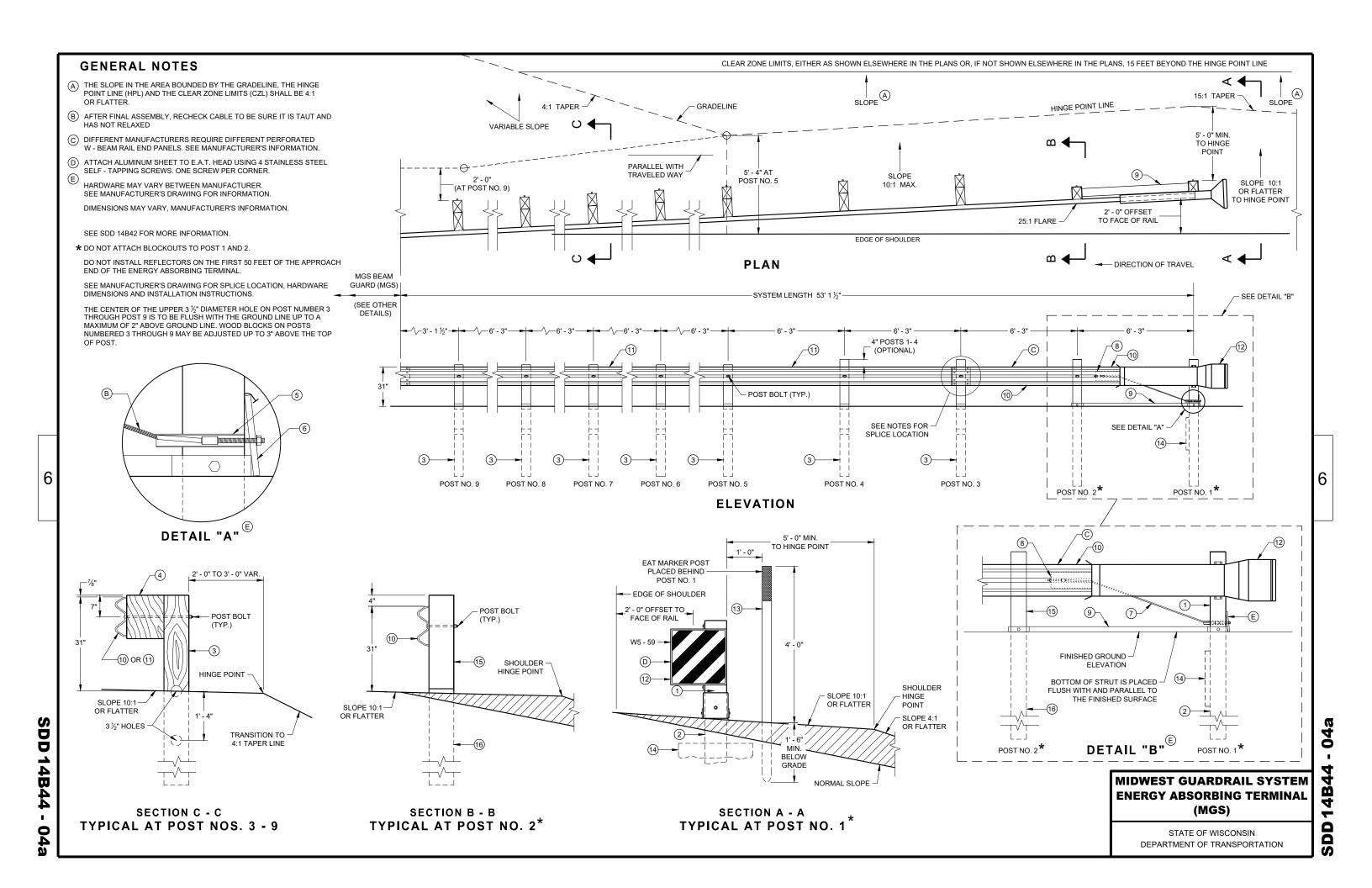
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

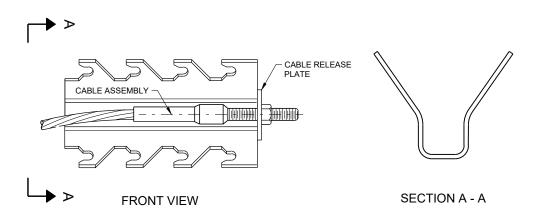
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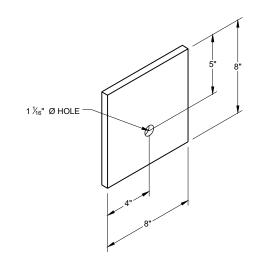
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







GENERIC ANCHOR CABLE BOX ^{(9) (E)}



BEARING PLATE

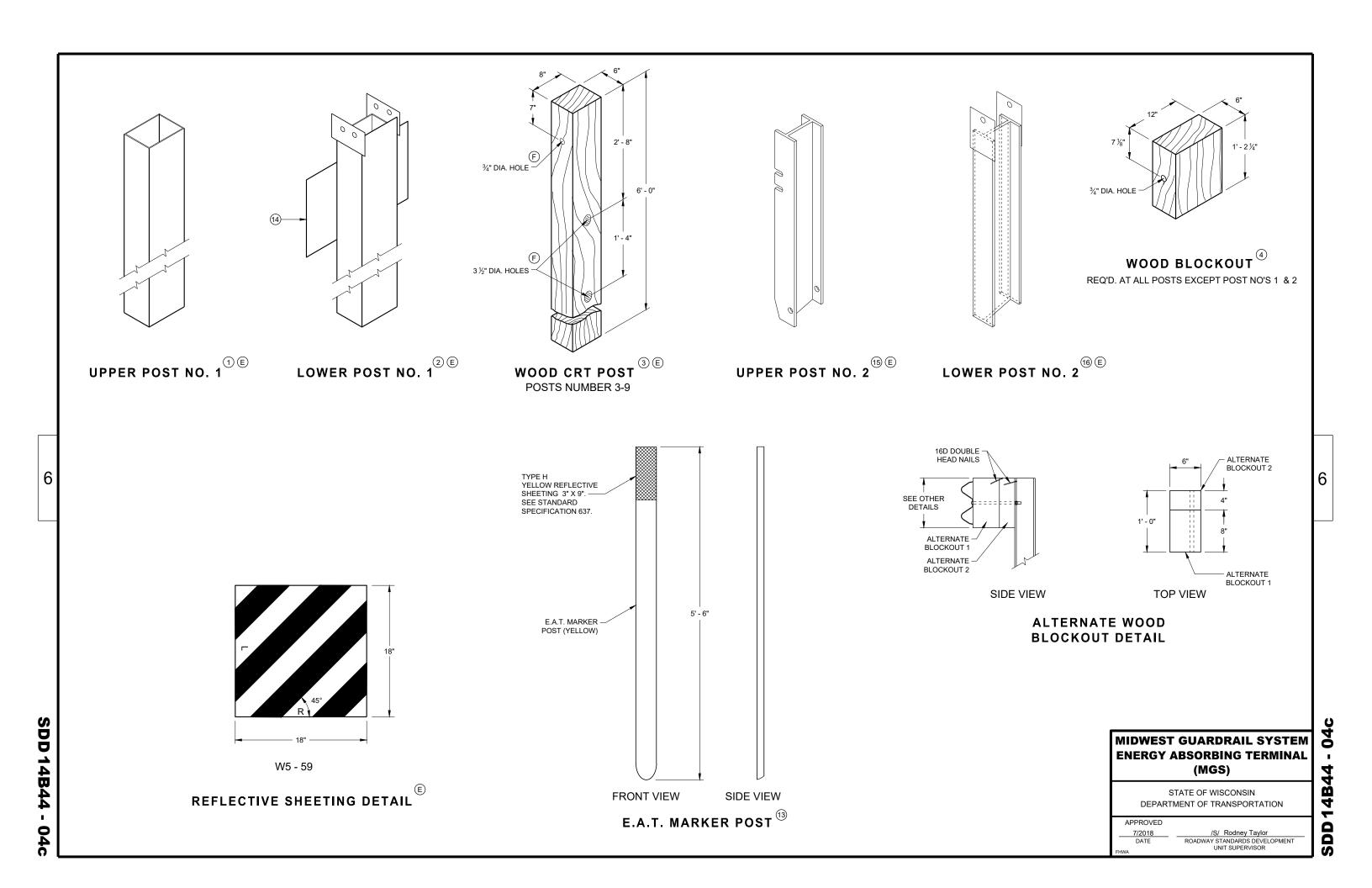
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

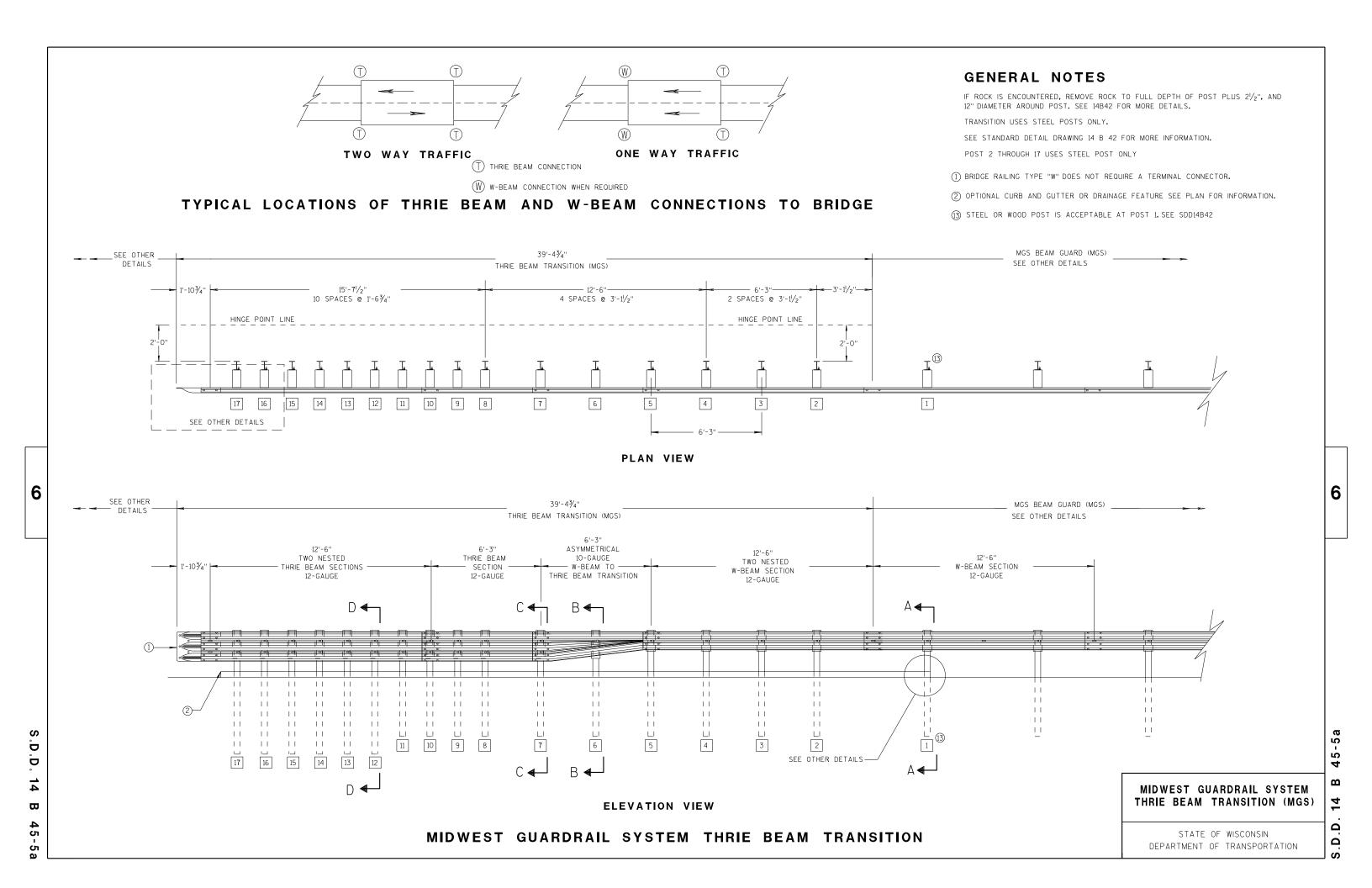
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

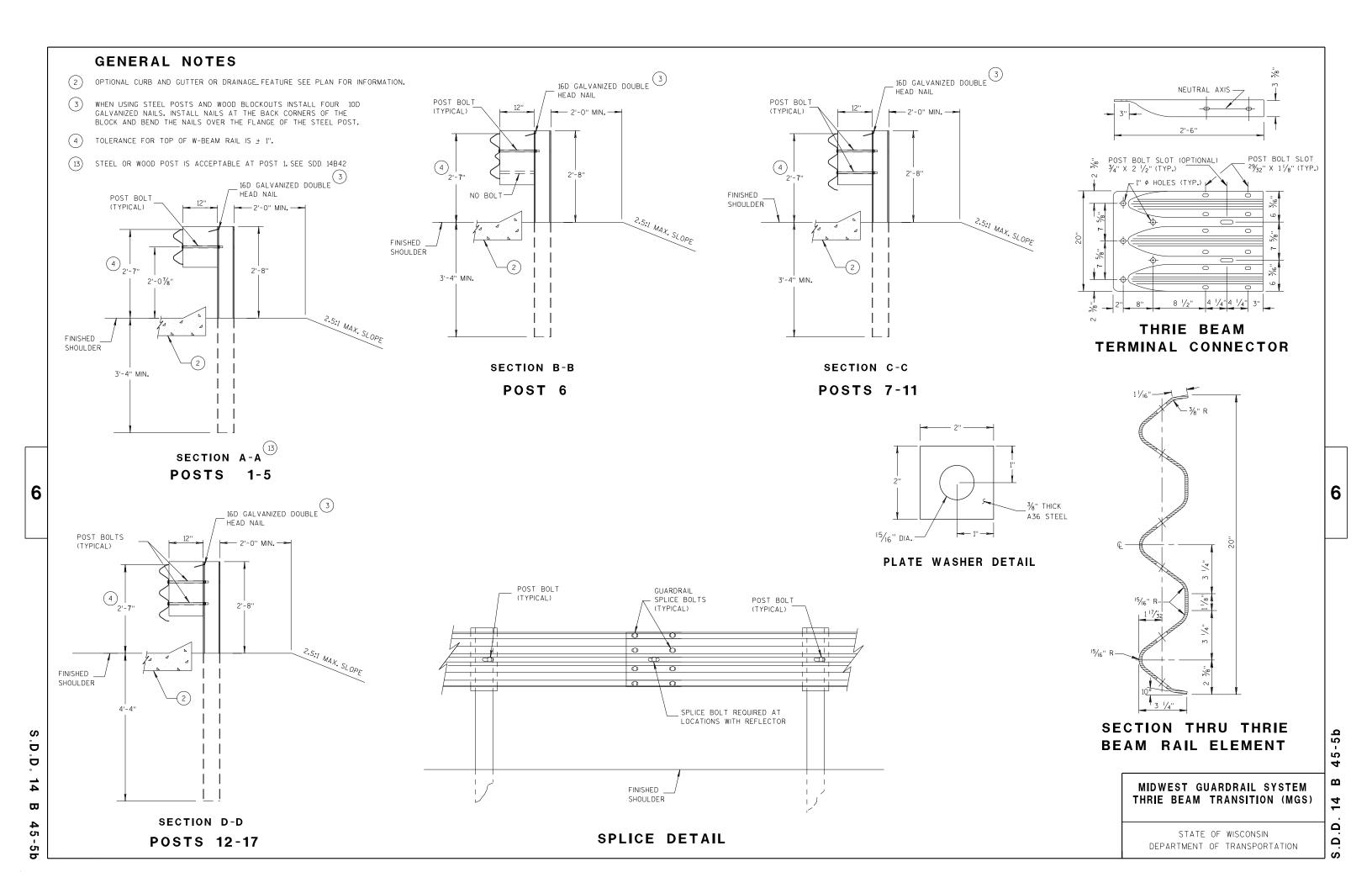
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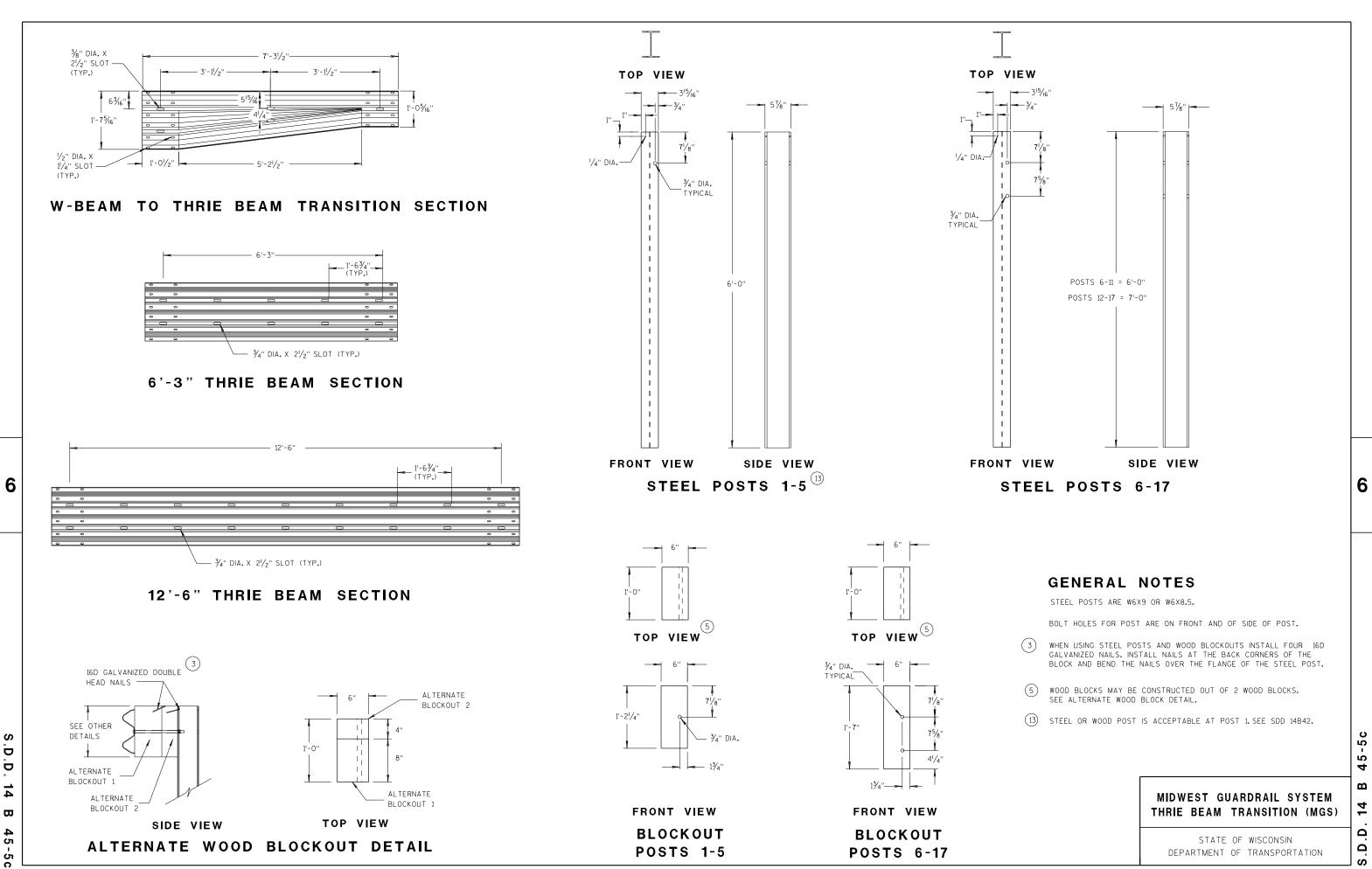
SDD 14B44

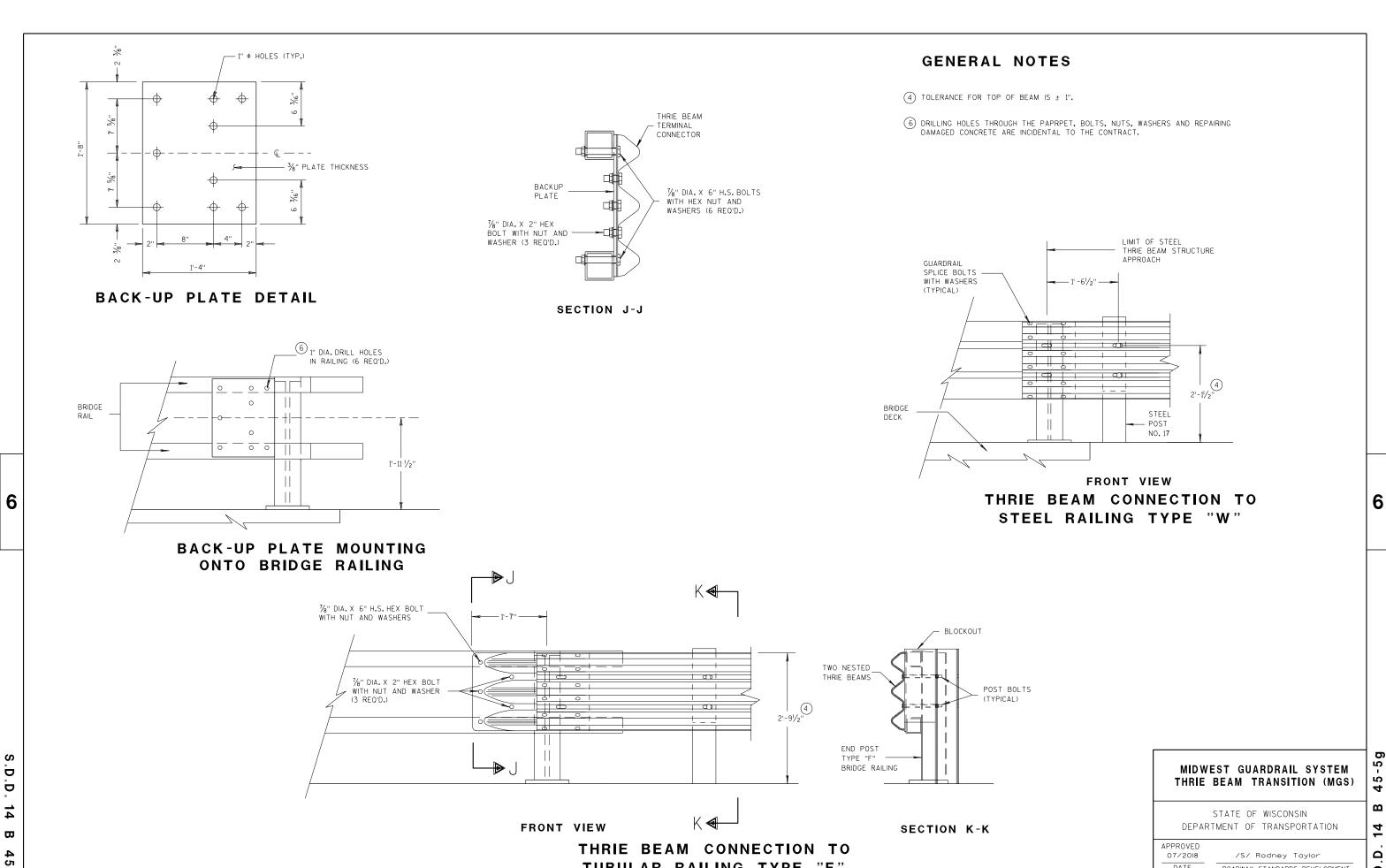
SDD 14B44











TUBULAR RAILING TYPE "F"

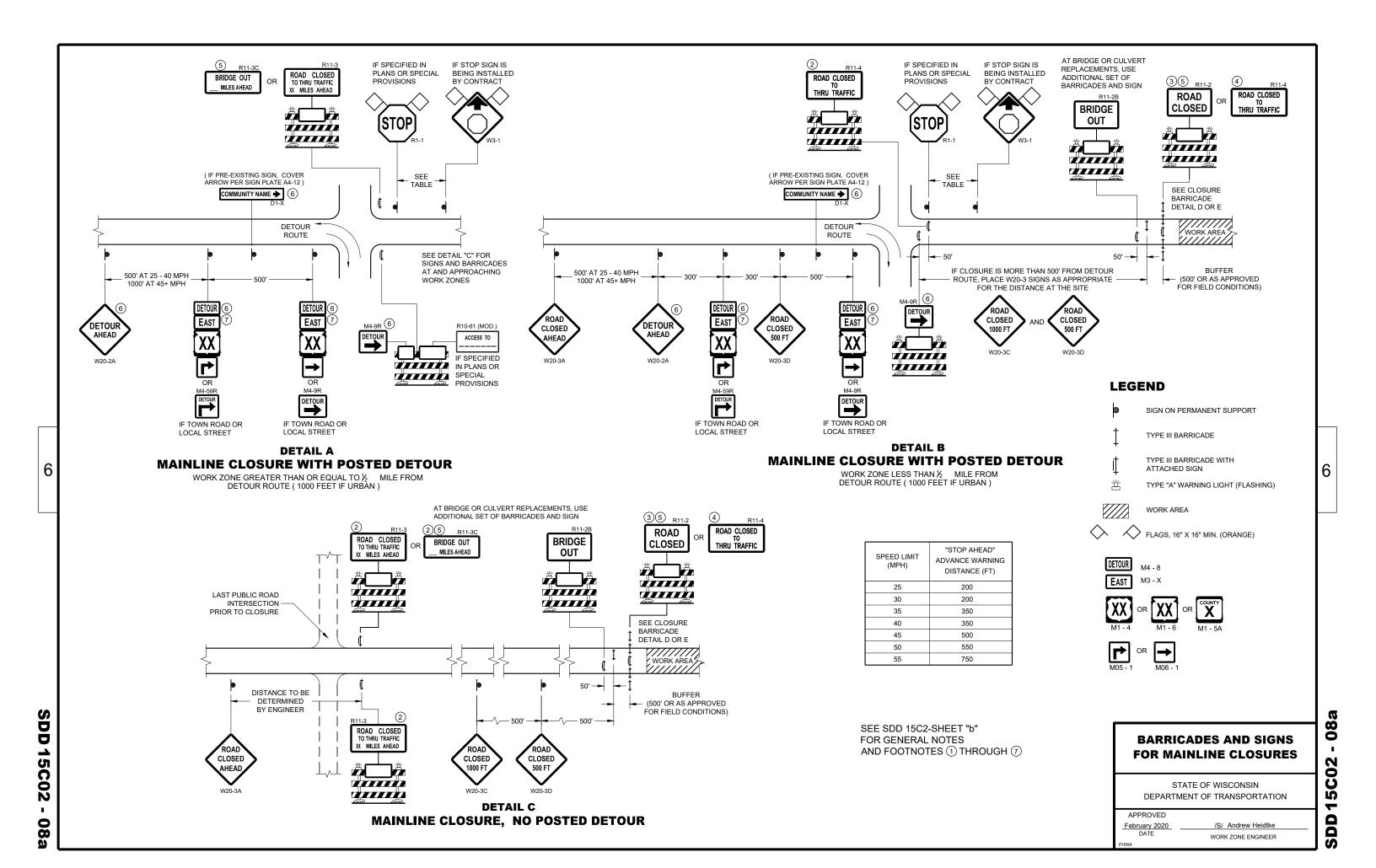
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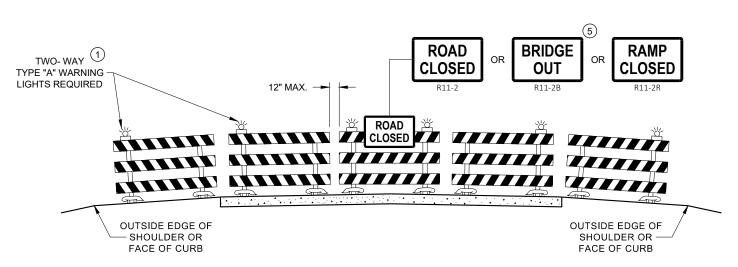
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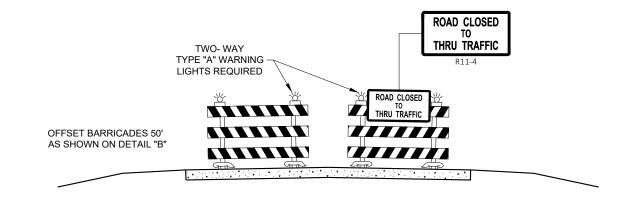
ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR





DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

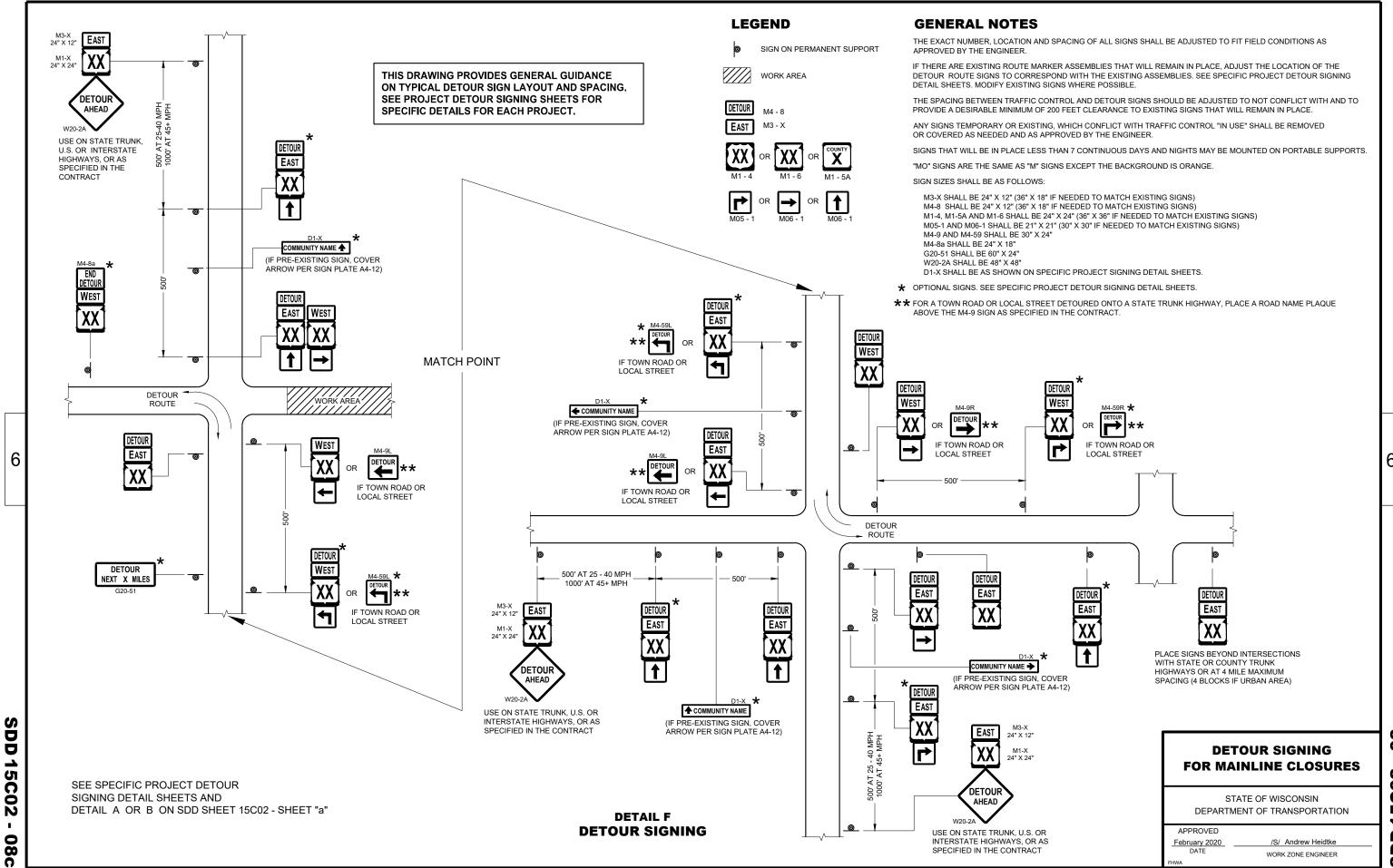
APPROVED

February 2020 ____

/S/ Andrew Heidtke
WORK ZONE ENGINEER

D15C0

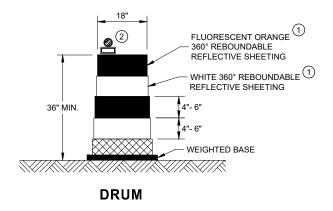
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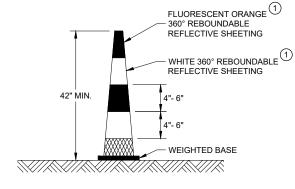


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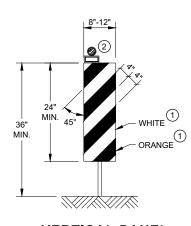
GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

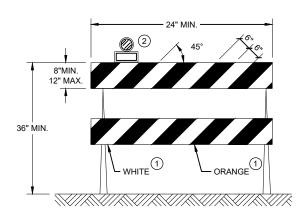




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

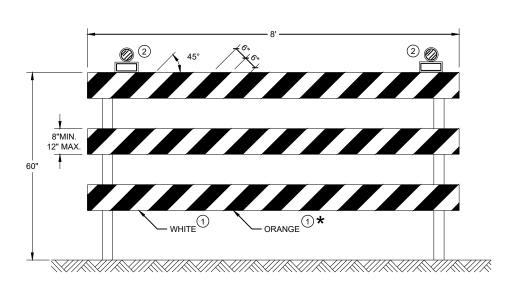


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

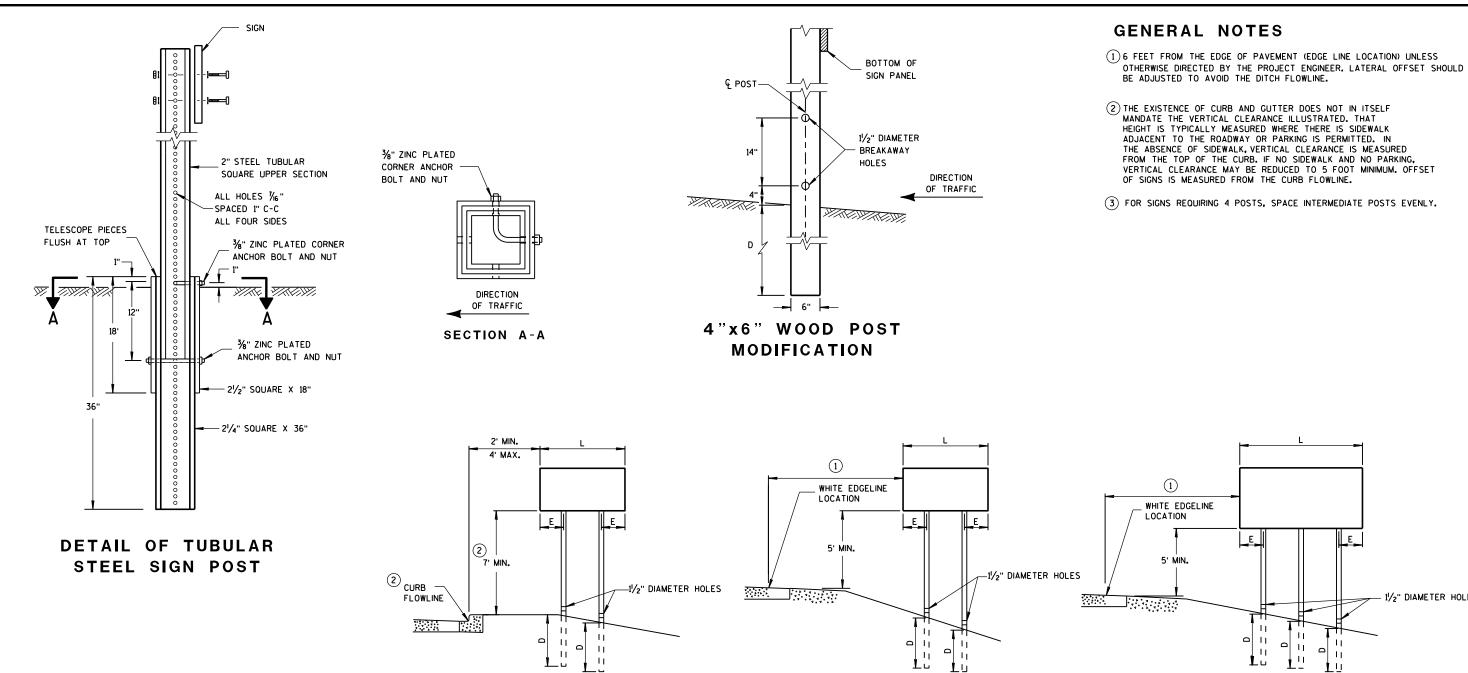
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
EHW/A	



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
Ĺ	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	؛ [
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

-11

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

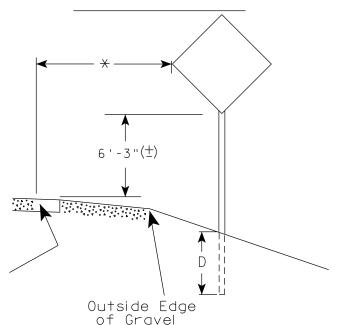
APPROVED

June 2017 DATE

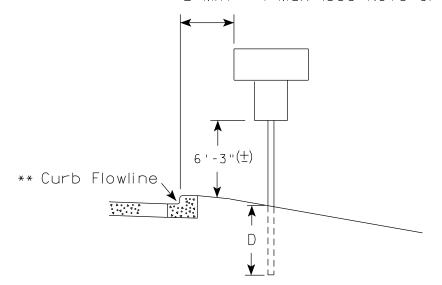
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



2' Min - 4' Max (See Note 6)



White Edgeline Location

geline

Outside Edge
of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm).

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{2}$).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

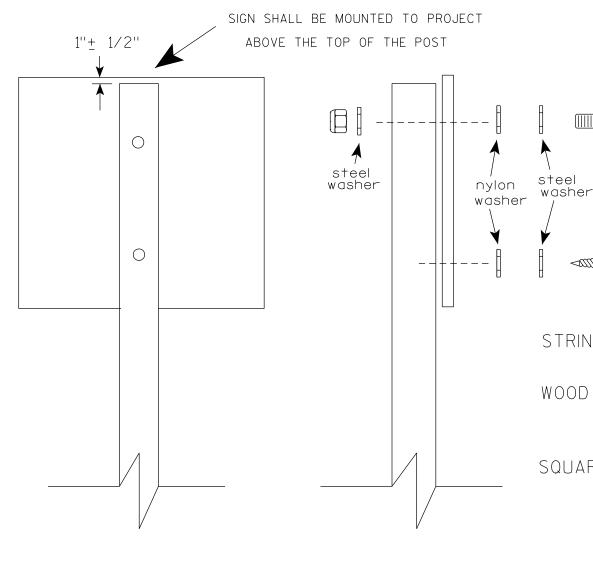
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

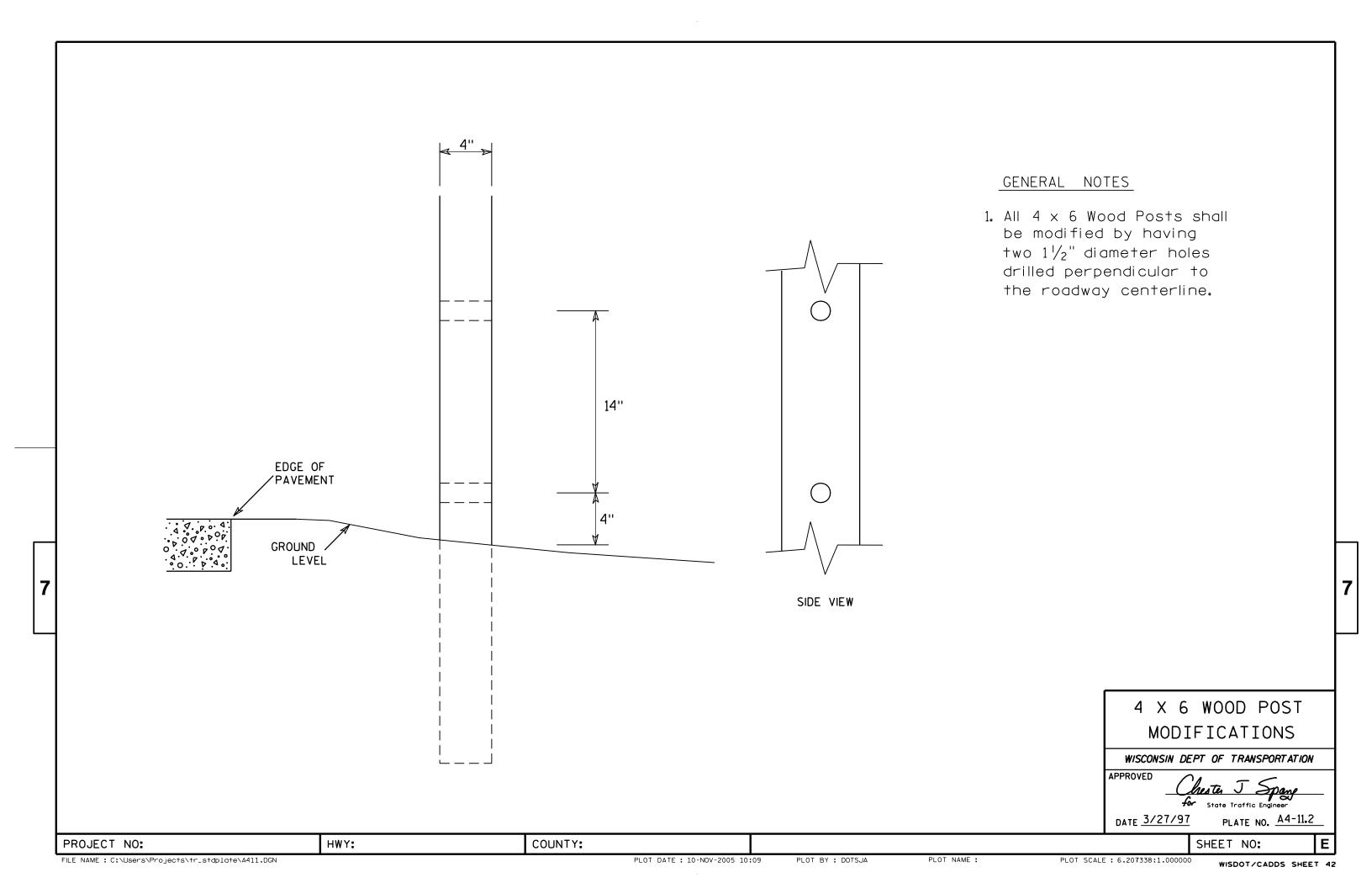
PLATE NO. <u>A4-8.9</u>

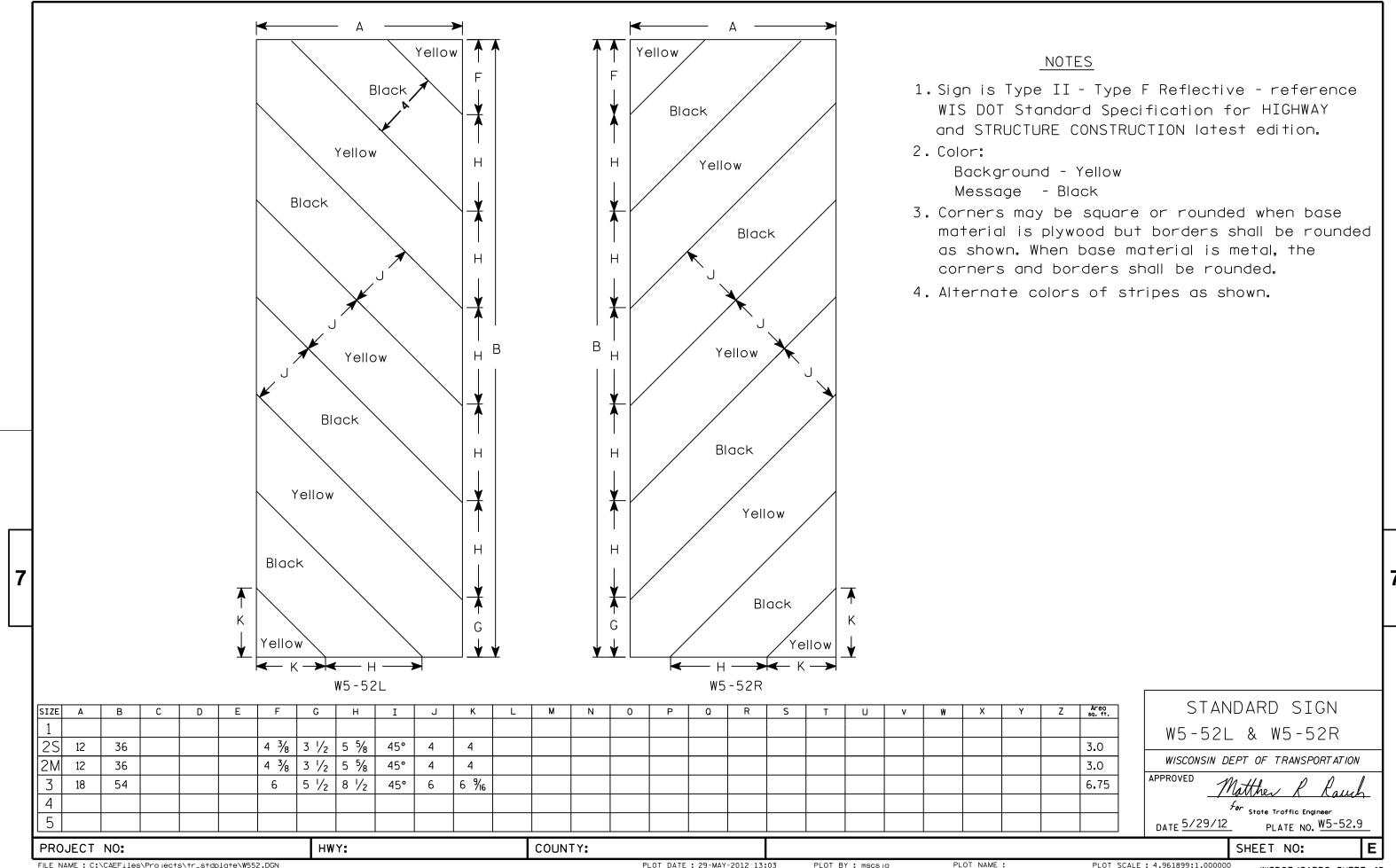
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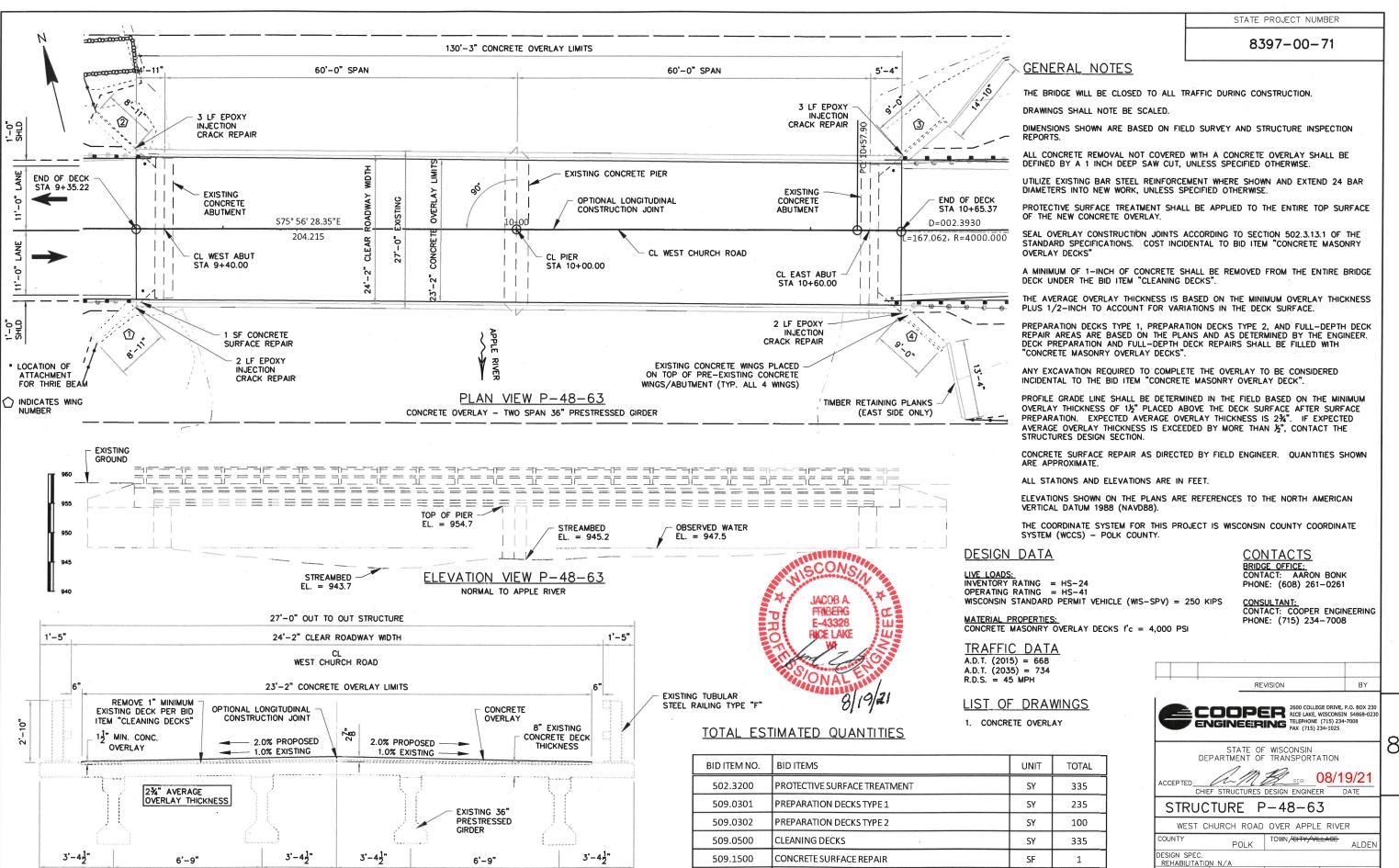
PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε







509.2000

509.2500

509.9025.5

FULL-DEPTH DECK REPAIR

CONCRETE MASONRY OVERLAY DECKS

EPOXY INJECTION CRACK REPAIR

8

CROSS SECTION THRU BRIDGE

(LOOKING EAST)

SHEET 1 OF

DESIGNED

CONCRETE

OVERLAY

SY

CY

LF

40

WEST CHURCH ROAD

			AREA (SF)		INCRI	MENTAL VOL (CY) (UNADJ	USTED)		CUMULATIVE VOL (CY)	
STATION	DISTANCE	СИТ	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	СПТ	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 4	NOTE 5
8+00	0	0.00	0.00	0.00	0	0	0	0	0	0
8+16	16	7.65	0.00	0.49	2	0	0	2	0	2
8+45	29	13.86	0.00	0.10	12	0	0	14	0	14
8+70	25	13.07	0.00	0.40	12	0	0	26	0	26
8+85	15	32.12	7.11	1.23	13	2	0	39	0	37
8+95	10	29.33	6.96	1.65	11	3	1	50	1	44
9+22	27	27.70	6.84	22.19	29	7	12	79	16	51
9+27	5	20.63	6.87	17.78	4	1	4	83	21	49
9+35	8	21.17	6.93	5.48	7	2	3	90	25	50
BRIDGE								90	25	50
10+65	0	19.89	8.35	0.00	3	0	0	93	25	53
10+73	8	20.19	8.16	1.67	6	2	0	99	25	57
10+78	5	19.51	8.09	16.35	4	2	2	103	28	57
10+83	5	19.92	8.09	34.08	4	1	5	107	34	53
11+00	17	22.60	8.20	17.73	13	5	15	120	53	43
11+15	15	25.71	8.12	10.98	13	5	8	133	63	41
11+17	2	5.86	0.00	12.07	1	0	1	134	64	40
11+42	25	7.51	0.00	10.34	6	0	9	140	75	35
11+55	13	7.34	0.00	7.38	4	0	4	144	80	34
11+67	12	8.22	0.00	9.06	3	0	4	147	85	32
11+80	13	2.72	0.00	5.69	3	0	4	150	90	30
12+05	25	3.40	0.00	3.03	3	0	4	153	95	28
12+45	40	3.43	0.00	0.00	5	0	2	158	98	31
12+65	20	0.00	0.00	0.00	2	0	2	160	100	30
				COLUMN TOTAL	160	30	80		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

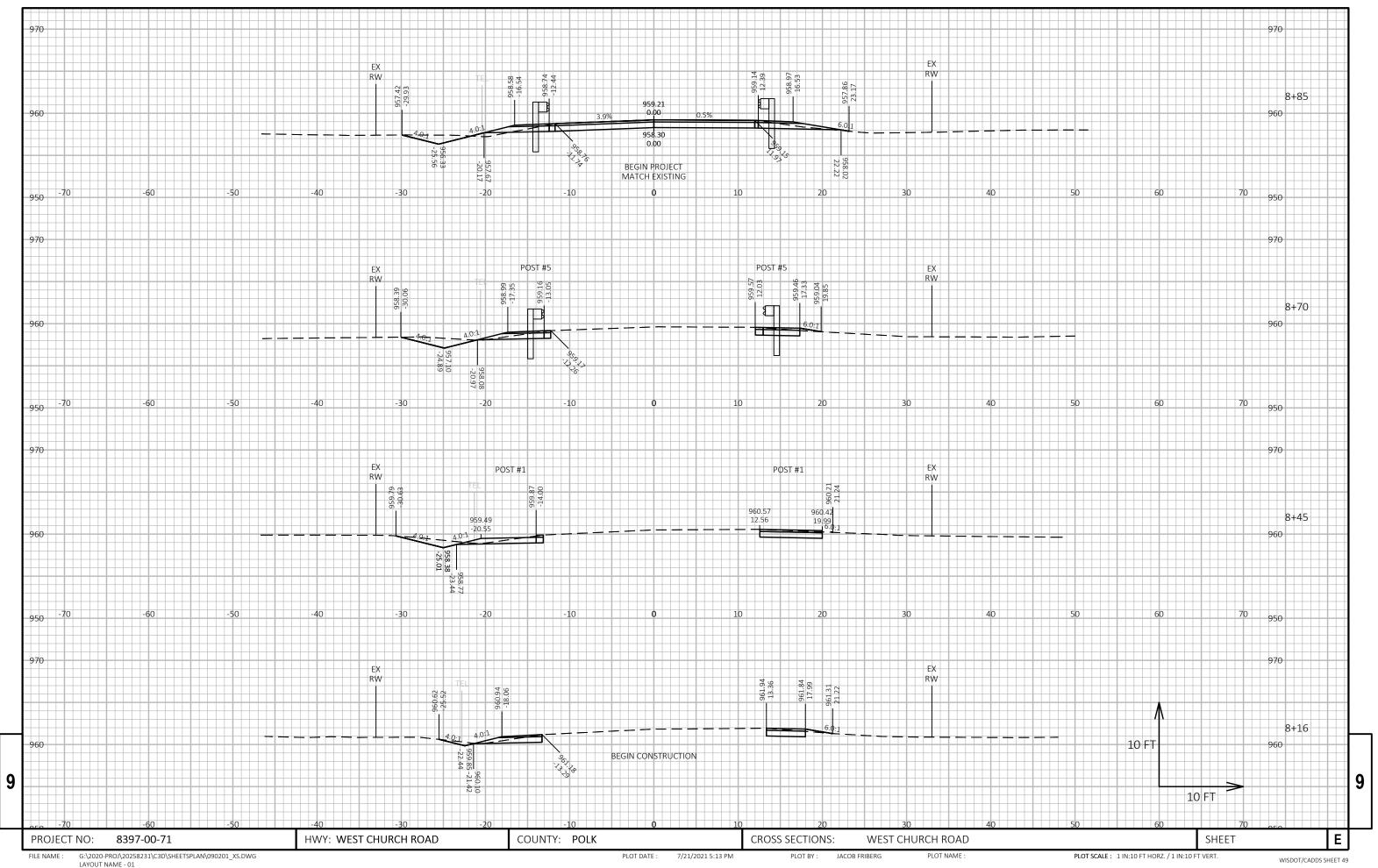
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED FILL	(FILL) x (FILL FACTOR)
5 - MASS ORDINATE	[CUT - SALVAGED PAVT - (FILL x FILL FACTOR)]

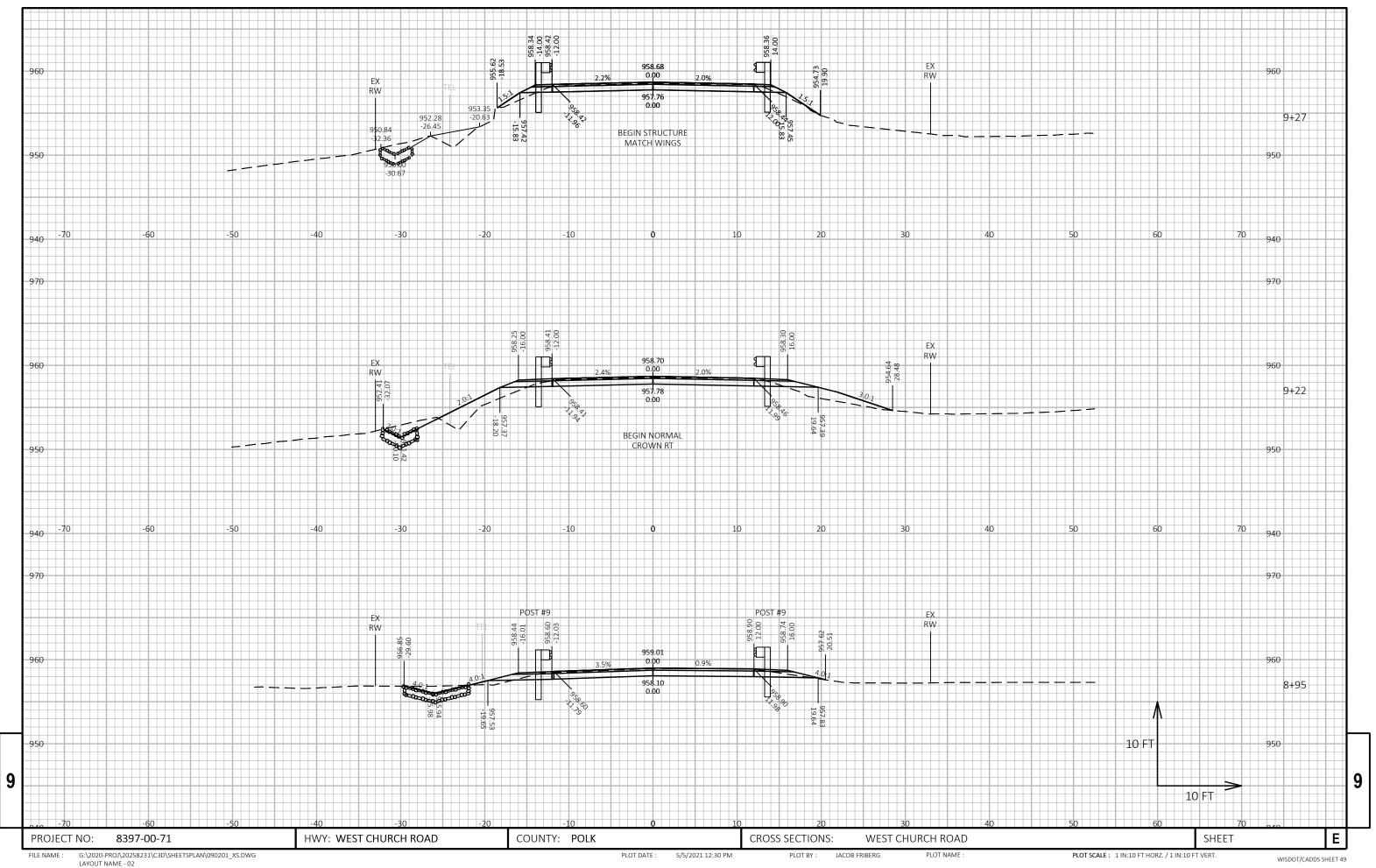
9

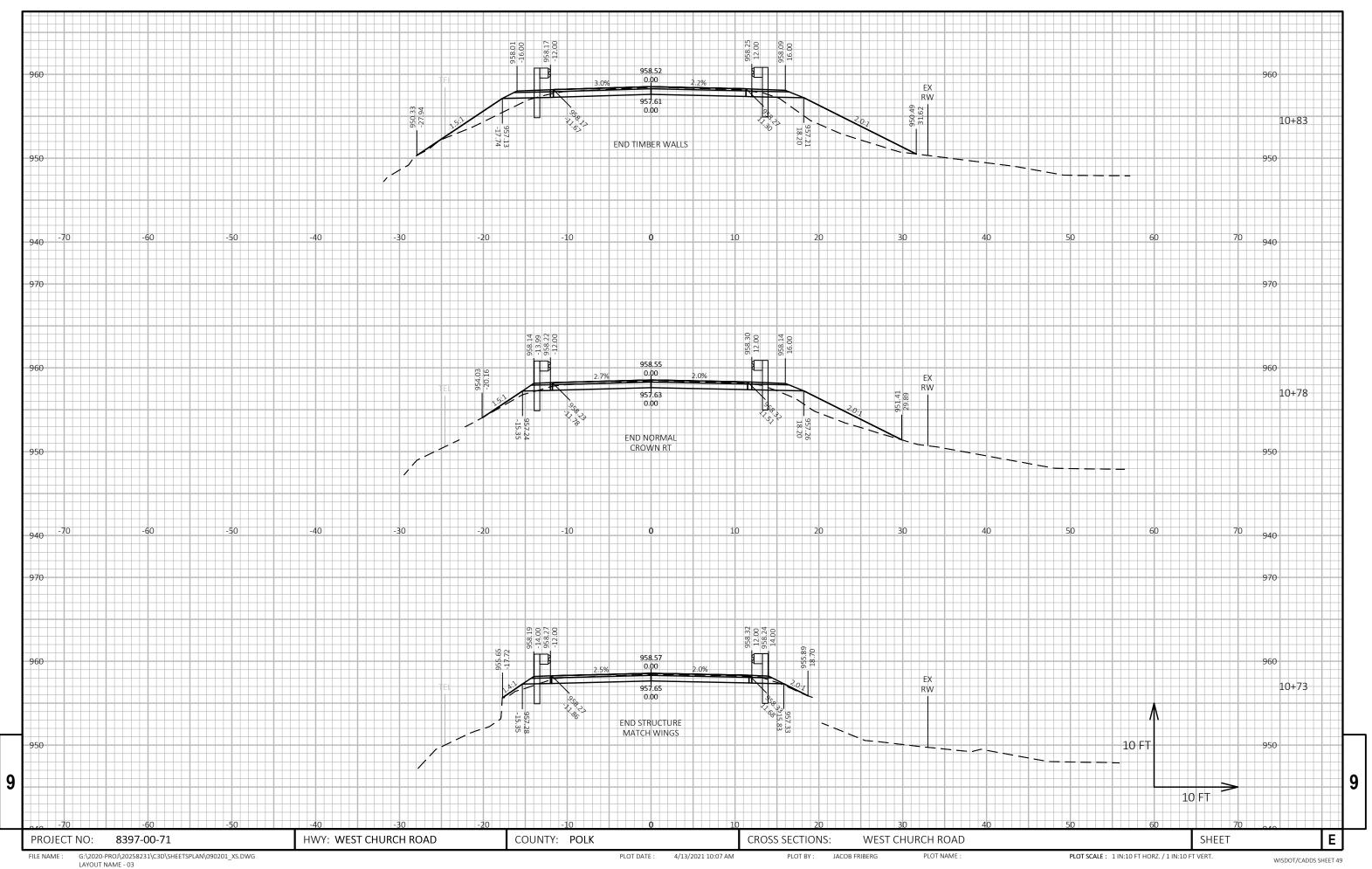
9

PROJECT NO: 8397-00-71 HWY: WEST CHURCH ROAD COUNTY: POLK EARTHWORK DATA SHEET **E**

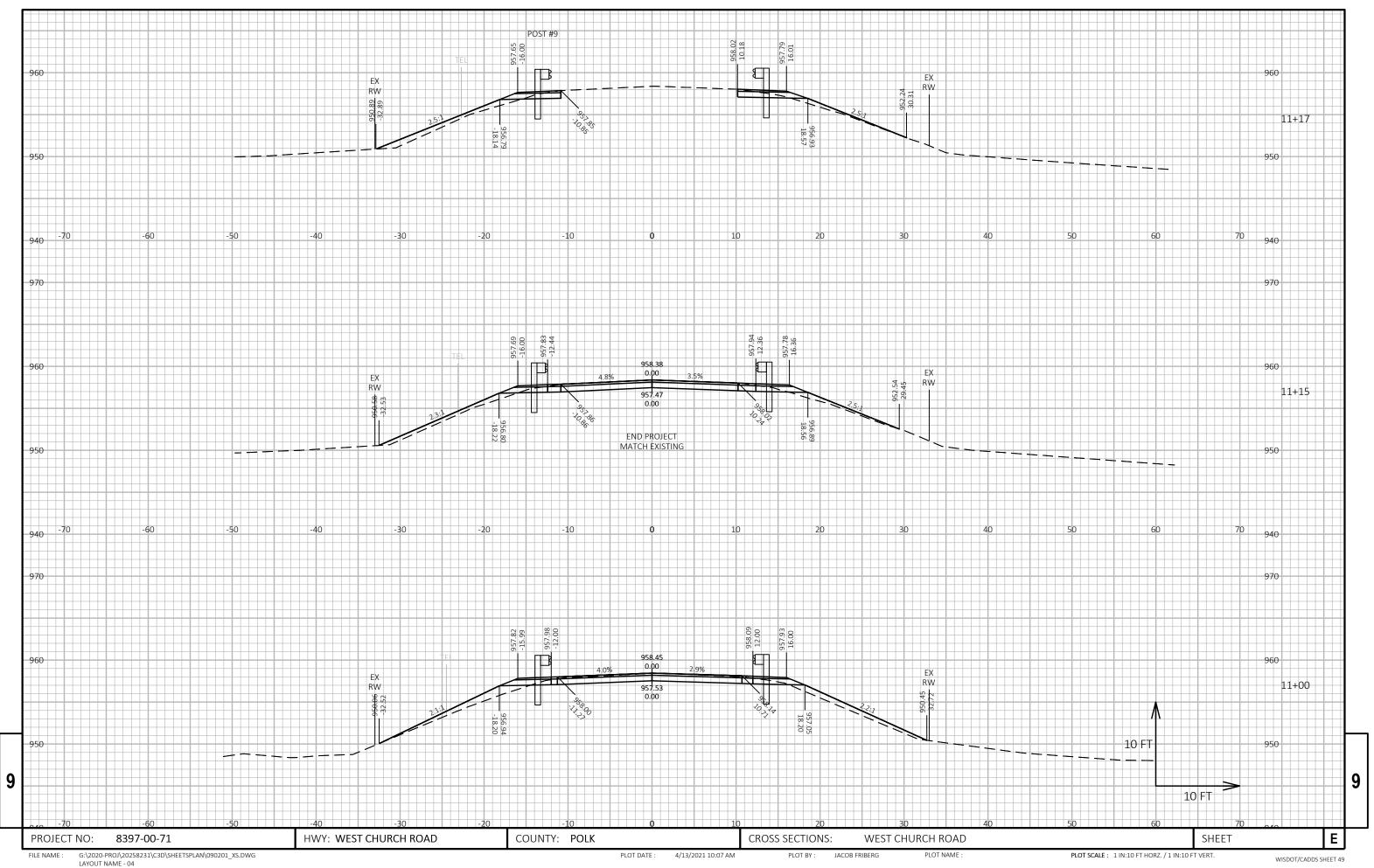
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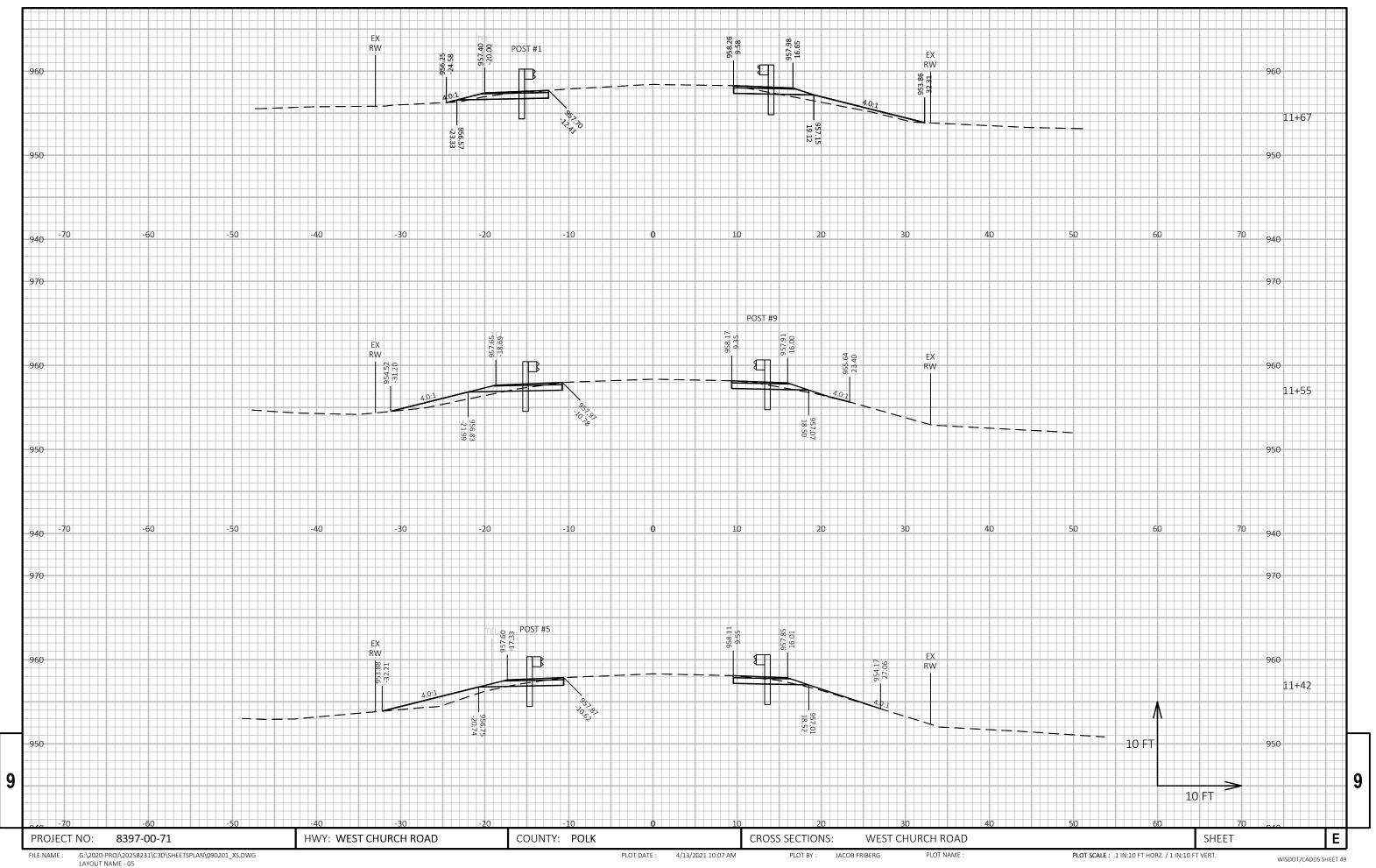


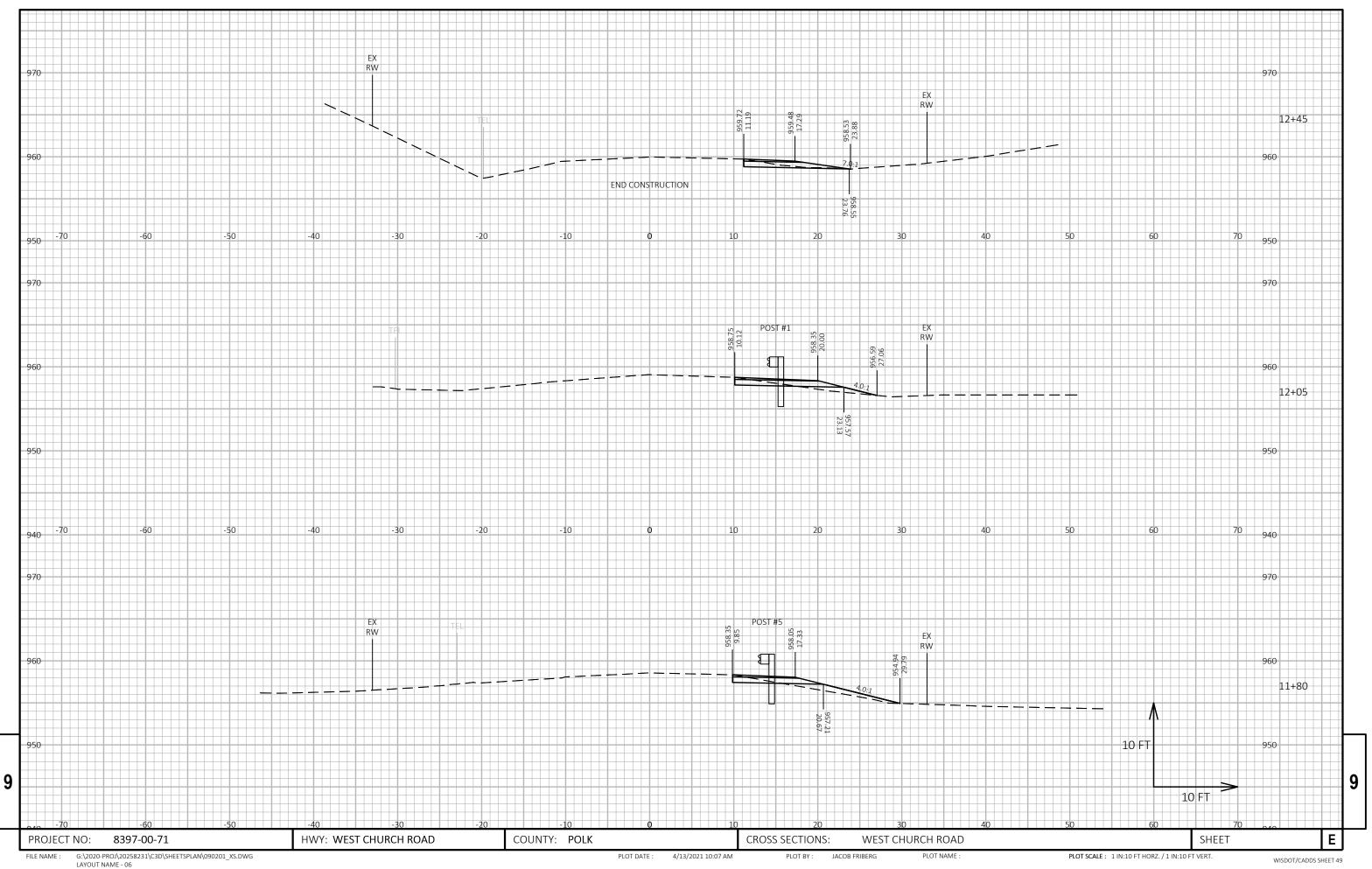


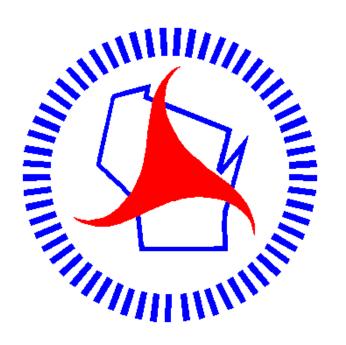


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Wisconsin Department of Transportation

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